

FEATURES & SPECIFICATIONS

INTENDED USE — Our recessed LED module is the most economical means to create a well lit environment with exceptional energy efficiency and near zero maintenance. Great for retrofit into existing downlight cans or new construction and remodel applications. Adjustable torsion spring and retention allows fitment into many 5" and 6" cans. The LED module maintains at least 70% light output for 35,000 hours. Indoor and Outdoor Use.

CONSTRUCTION — Aluminum spun reflector with deep regression for reduced glare. Combined LED and driver printed circuit board attached. Inner reflector cone funnels light through the pressed-in diffused lens.

OPTICS — Diffused lens at end of mixing chamber to provide even light distribution for general illumination, equivalent to 65W BR30 lamp.

Wide flood beam angle at >45°.

ELECTRICAL — Center 2 Edge™ (patent pending) technology created for a single point source. Primary power disconnect provided for simple connection to a dedicated LED connector in the housing.

Dimming down to 10%. For compatible dimmers, refer to Compatible Dimmers Chart.

835-lumen E series has an input wattage of 11.9 watts, 70 lumens per watt, equivalent to 65-watt incandescent.

E Series' patent pending driver has zero inrush, which allows power loads to be calculated with actual rated wattages.

Example: 50 units of 65BEMW LED fixtures can be installed in line with a 600-watt dimmer. 600W/11.9W = 50 fixtures.

INSTALLATION — Suitable for installation in standard and shallow-height rough-in sections.

E26 socket adaptor ships standard, except on standard lumen output 27K 90CRI product shipping to California.

Twin torsion springs ensure easy installation for 5" and 6" recessed housings.

LISTINGS — CSA certified to US and Canadian safety standards. ENERGY STAR® certified. Can be used to comply with California Title 24 Part 6 High Efficacy LED Light Source Requirements. Wet location listed. WSEC ASTM E283 for Air-Tight (with IC housings).

WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomResources/Terms_and_conditions.aspx

NOTE: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

PATENTS PENDING.

Catalog Number
Notes
Type



65BEMW



65SEMW

LED Recessed Downlighting

65BE/65SE

5" / 6" LED Module
IC/Non-IC
Retrofit



E26 adaptor

Specifications

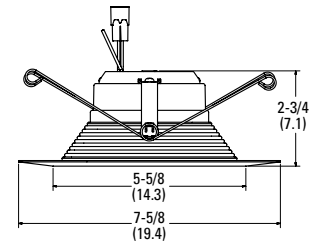
Aperture: 5-5/8 (14.3)

Ceiling opening: Determined by rough-in

Overlap trim: 7-5/8 (19.4)

Height: 2-3/4 (7.1)

All dimensions are inches (centimeters) unless otherwise indicated.



ORDERING INFORMATION For shortest lead times, configure product using **bolded** options.

Example: 65BEMW LED 27K 90CRI L7XLED T24

Series/Finish	Lamp	CCT / W / Lumens ²	CRI	Voltage	Options
65BEMW 5" / 6" Baffle LED module, matte white	LED	27K 2700 K / 12.1W / 750L ³	90CRI 90CRI	(blank) 120V	L/SKTWHIP No E26 Adapter (CA only)
		30K 3000 K / 11.9W / 835L			
		35K 3500 K / 11.7W / 825L			
		40K 4000 K / 11.9W / 845L			
		50K 5000 K / 12.12W / 825L			
65SEMW ¹ 5" / 6" Smooth LED module, matte white	HL LED	27K 2700K/11.7W/1090L	(blank) 80CRI		
		40K 4000K/11.9W/1110L			

Housing options					
L7XLED T24	6" new construction rough-in LED base	LC6	6" new construction rough-in ⁴	IC21	6" IC shallow new construction housing ⁴
L7XRLED T24	6" remodel rough-in LED base	LCP	6" new construction shallow rough-in ⁴	IC21R	6" IC shallow remodel housing ⁴
LC6LED T24	6" new construction rough-in LED base	LSLED T24	5" new construction rough-in LED base	IC22	6" IC new construction housing ⁴
L7X	6" new construction rough-in ⁴	LSRLED T24	5" remodel rough-in LED base	IC22R	6" IC remodel housing ⁴
L7XR	6" remodel rough-in ⁴	L5	5" new construction rough-in ⁴	IC23	6" IC new construction housing, no plate ⁴
L7XP	6" new construction shallow rough-in ⁴	LSR	5" new construction rough-in ⁴	IC23R	6" IC remodel housing, no plate ⁴
L7XPR	6" remodel shallow rough-in ⁴				

Accessories: Order as separate catalog number.		
TSA6 J6	6" torsion spring adaptor (pack of 6)	RK2 CG52178 E26 E SERIES SKT ADAPTER U E26 Adapter (Single Unit Pack) RK2 CG52178 E26 E SERIES SKT ADAPTER J10 E26 Adapter (Pack of 10) RK2 CG52178 E26 E SERIES SKT ADAPTER J25 E26 Adapter (Pack of 25)

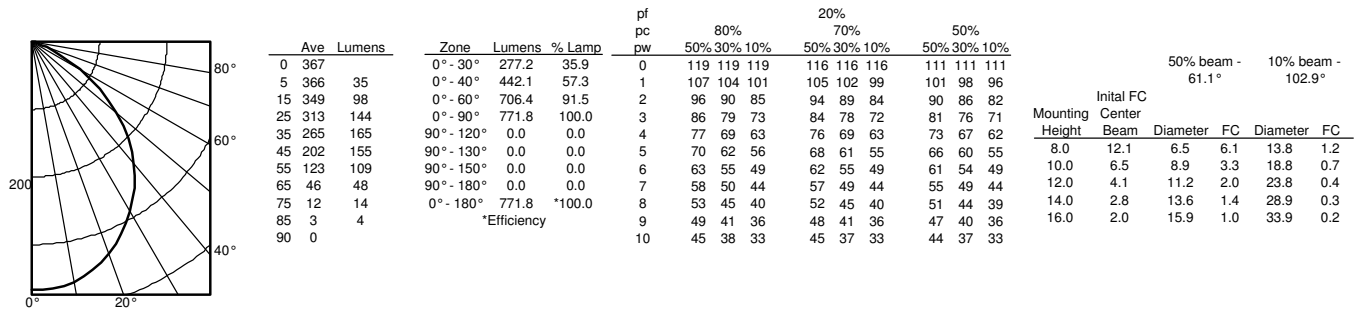
Notes

- Not Available in High Lumen
- Total system delivered lumens.
- L/SKTWHIP must be selected for standard lumen output 27K 90CRI product shipping to California.
- 65BEMW HL LED 30K is no longer available. Must be ordered on a separate line.

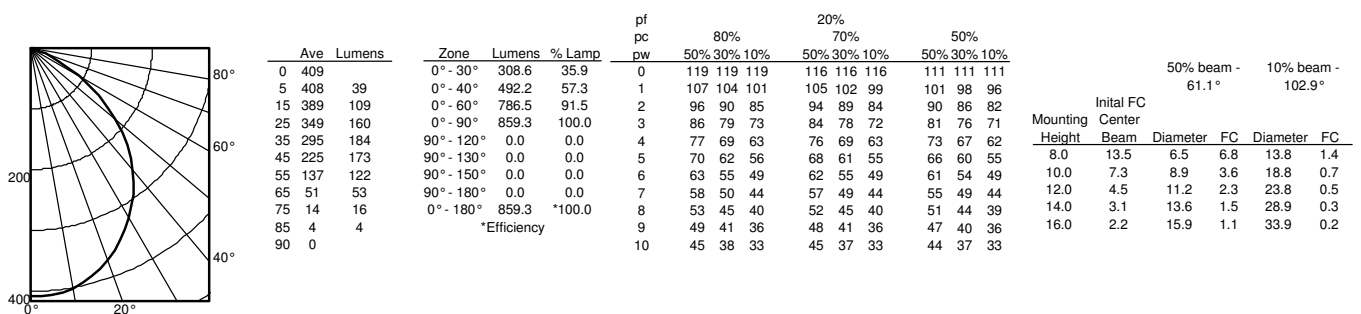
PHOTOMETRICS

Distribution Curve Distribution Data Output Data Coefficient of Utilization Illuminance Data at 30" Above Floor for a Single Luminaire

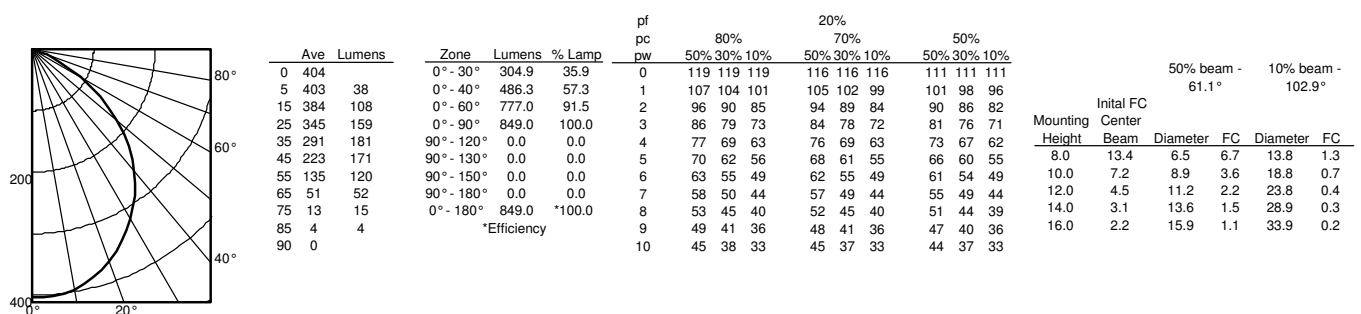
65BEMW LED, 27K, input watts: 11.9, delivered lumens: 772, LM/W = 62, test no. ISF 35429P1, tested in accordance with IESNA LM 79-08



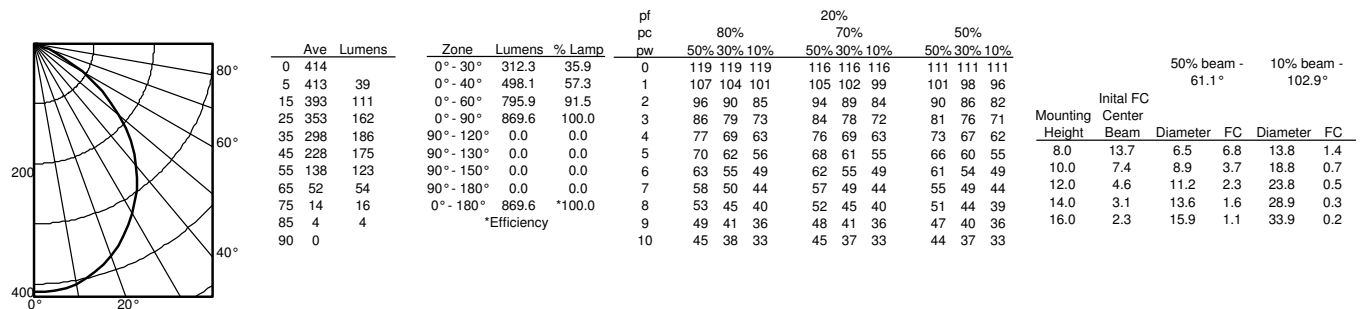
65BEMW LED, 30K, input watts: 11.9, delivered lumens: 859, LM/W = 70, test no. ISF 35429, tested in accordance with IESNA LM 79-08



65BEMW LED, 35K, input watts: 11.9, delivered lumens: 849, LM/W = 71, test no. ISF 35429P2, tested in accordance with IESNA LM 79-08



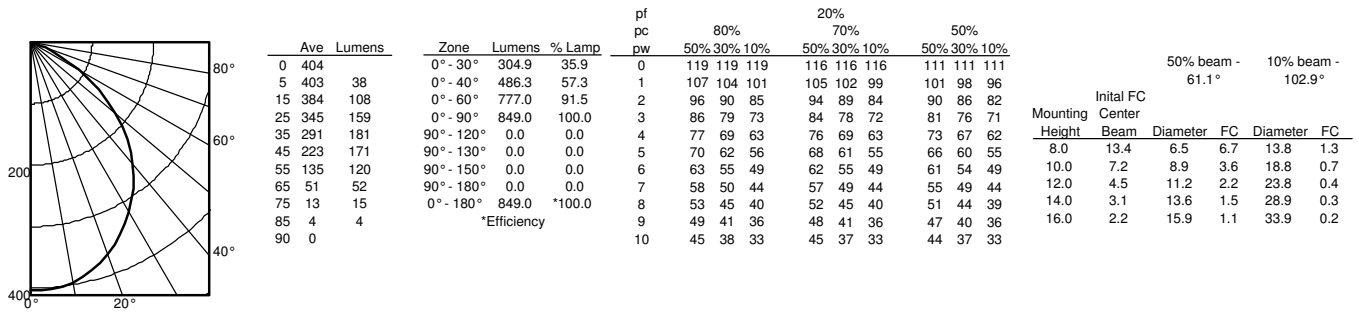
65BEMW LED, 40K, input watts: 11.9, delivered lumens: 870, LM/W = 71, test no. ISF 35429P3, tested in accordance with IESNA LM 79-08



PHOTOMETRICS

Distribution Curve	Distribution Data	Output Data	Coefficient of Utilization	Illuminance Data at 30" Above Floor for a Single Luminaire
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65BEMW LED, 50K, input watts: 11.9, delivered lumens: 849, LM/W = 68, test no. ISF 35429P4, tested in accordance with IESNA LM 79-08



ADDITIONAL DATA 65BEMW/65SEM LED 27K

6"/5" ENERGY DATA	
Lumens	750
Color Temperature	2700K
CRI	90
Lu/Watts	62
Operating temp	-20°C (-4°F) to 40°C (104°F)
EMI/RFI	FCC Title 47 CFR, Part 15, Class B
Sound rating	Class A Standards
Input voltage	120V
Min. power factor	0.99
Input frequency	50/60 Hz
Rated wattage	12.1W
Input power	12.1W
Input current	0.1A

ADDITIONAL DATA 65BEMW/65SEM LED 30K

6"/5" ENERGY DATA	
Lumens	835
Color Temperature	3000K
CRI	90
Lu/Watts	70
Operating temp	-20°C (-4°F) to 40°C (104°F)
EMI/RFI	FCC Title 47 CFR, Part 15, Class B
Sound rating	Class A Standards
Input voltage	120V
Min. power factor	0.99
Input frequency	50/60 Hz
Rated wattage	11.9W
Input power	11.9W
Input current	0.1A

ADDITIONAL DATA 65BEMW/65SEM LED 35K

6"/5" ENERGY DATA	
Lumens	825
Color Temperature	3500K
CRI	90
Lu/Watts	70
Operating temp	-20°C (-4°F) to 40°C (104°F)
EMI/RFI	FCC Title 47 CFR, Part 15, Class B
Sound rating	Class A Standards
Input voltage	120V
Min. power factor	0.99
Input frequency	50/60 Hz
Rated wattage	11.7W
Input power	11.7W
Input current	0.1A

ADDITIONAL DATA 65BEMW/65SEM LED 40K

6"/5" ENERGY DATA	
Lumens	845
Color Temperature	4000K
CRI	90
Lu/Watts	71
Operating temp	-20°C (-4°F) to 40°C (104°F)
EMI/RFI	FCC Title 47 CFR, Part 15, Class B
Sound rating	Class A Standards
Input voltage	120V
Min. power factor	0.99
Input frequency	50/60 Hz
Rated wattage	11.9W
Input power	11.9W
Input current	0.1A

ADDITIONAL DATA 65BEMW/65SEM LED 50K

6"/5" ENERGY DATA	
Lumens	825
Color Temperature	5000K
CRI	90
Lu/Watts	68
Operating temp	-20°C (-4°F) to 40°C (104°F)
EMI/RFI	FCC Title 47 CFR, Part 15, Class B
Sound rating	Class A Standards
Input voltage	120V
Min. power factor	0.99
Input frequency	50/60 Hz
Rated wattage	12.12W
Input power	12.12W
Input current	0.1A

LIGHTING FACTS

LED lighting facts
A Program of the U.S. DOE

Light Output (Lumens) 750
Watts 12.1
Lumens per Watt (Efficacy) 61.98

Color Accuracy
Color Rendering Index (CRI) 90

Light Color
Correlated Color Temperature (CCT) 2700 (Warm White)

2700K 3000K 4500K 6500K

All results are according to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

Visit www.lightingfacts.com for the Label Reference Guide.

Registration Number: NJSM-SGA7DZ (8/15/2017)
Model Number: 65BEMW LED 27K 90CRI
Type: Retrofit Kit - Downlight

LED lighting facts
A Program of the U.S. DOE

Light Output (Lumens) 835
Watts 11.9
Lumens per Watt (Efficacy) 70.17

Color Accuracy
Color Rendering Index (CRI) 90

Light Color
Correlated Color Temperature (CCT) 3000 (Bright White)

2700K 3000K 4500K 6500K

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Registration Number: NJSM-DKOYOM (8/15/2017)
Model Number: 65BEMW LED 30K 90CRI
Type: Retrofit Kit - Downlight

LED lighting facts
A Program of the U.S. DOE

Light Output (Lumens) 825
Watts 11.7
Lumens per Watt (Efficacy) 70.51

Color Accuracy
Color Rendering Index (CRI) 90

Light Color
Correlated Color Temperature (CCT) 3500 (Bright White)

2700K 3000K 4500K 6500K

All results are according to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

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Registration Number: NJSM-Z6SNG3 (10/11/2017)
Model Number: 65BEMW LED 35K 90CRI [Upgrade : 10/11/2017]
Type: Retrofit Kit - Downlight

LED lighting facts
A Program of the U.S. DOE

Light Output (Lumens) 845
Watts 11.9
Lumens per Watt (Efficacy) 71.01

Color Accuracy
Color Rendering Index (CRI) 90

Light Color
Correlated Color Temperature (CCT) 4000 (Bright White)

2700K 3000K 4500K 6500K

All results are according to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

Visit www.lightingfacts.com for the Label Reference Guide.

Registration Number: NJSM-7SATGV (8/15/2017)
Model Number: 65BEMW LED 40K 90CRI
Type: Retrofit Kit - Downlight

LED lighting facts
A Program of the U.S. DOE

Light Output (Lumens) 825
Watts 12.12
Lumens per Watt (Efficacy) 68.07

Color Accuracy
Color Rendering Index (CRI) 90

Light Color
Correlated Color Temperature (CCT) 5000 (Daylight)

2700K 3000K 4500K 6500K

All results are according to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

Visit www.lightingfacts.com for the Label Reference Guide.

Registration Number: NJSM-QBZIIK (8/15/2017)
Model Number: 65BEMW LED 50K 90CRI
Type: Retrofit Kit - Downlight

DIMMER LIST ESERIES — Low Lumen

Lutron	Synergy	Leviton
AYCL-153P	ISD 600 I 120*	DW6HD-1BZ
CTCL-153P		
DVCL-153P		

*Must have minimum of qty 6 LED modules on a circuit to function.

PHOTOMETRICS

Distribution Curve

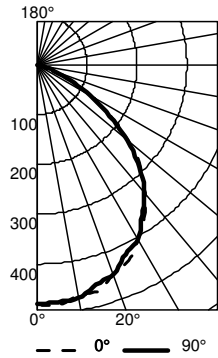
Distribution Data

Output Data

Coefficient of Utilization

Illuminance Data at 30" Above Floor for a Single Luminaire

65BEMW HL LED, 27K, input watts: 11.7, delivered lumens: 1083, LM/W = 92.5, test no. ISF 32419, tested in accordance with IESNA LM 79-08



CP Summary

	0°	90°
0°	481	481
5°	484	477
15°	469	456
25°	433	418
35°	374	367
45°	294	291
55°	179	177
65°	71	74
75°	16	16
85°	3	4
90°	0	0

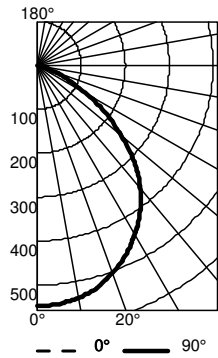
Coefficients of Utilization

pc	20%								
	80%			70%			50%		
pw	70%	50%	30%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	111	107	103	105	101	99	100	98	96
2	102	95	89	93	88	84	90	86	82
3	94	85	78	83	77	72	81	75	70
4	87	76	68	75	68	62	73	66	61
5	80	69	61	68	60	54	66	59	54
6	75	62	54	61	54	48	60	53	48
7	69	57	49	56	48	43	54	48	42
8	65	52	44	51	44	38	50	43	38
9	60	48	40	47	40	35	46	39	35
10	57	44	37	44	36	32	43	36	32

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	371	34.2	34.2
0° - 40°	601	55.5	55.5
0° - 60°	982	90.6	90.6
0° - 90°	1084	100.0	100.0
90° - 180°	0	0.0	0.0
0° - 180°	1084	100.0	100.0

65BEMW HL LED, 40K, input watts: 11.7, delivered lumens: 1187, LM/W = 101.4, test no. ISF 32454, tested in accordance with IESNA LM 79-08



CP Summary

	0°	90°
0°	547	547
5°	546	546
15°	525	524
25°	477	476
35°	408	408
45°	314	312
55°	193	191
65°	79	76
75°	18	18
85°	5	4
90°	0	0

Coefficients of Utilization

pc	20%								
	80%			70%			50%		
pw	70%	50%	30%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	111	107	104	105	102	99	101	98	96
2	102	96	90	94	88	84	90	86	82
3	95	85	78	84	77	72	81	76	71
4	87	77	69	75	68	63	73	67	62
5	81	69	61	68	61	55	66	60	54
6	75	63	55	62	54	49	60	53	48
7	70	57	49	57	49	43	55	48	43
8	65	53	45	52	44	39	51	44	39
9	61	48	41	48	40	35	47	40	35
10	57	45	37	44	37	32	43	37	32

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	418	35.3	35.3
0° - 40°	672	56.7	56.7
0° - 60°	1082	91.2	91.2
0° - 90°	1186	100.0	100.0
90° - 180°	0	0.0	0.0
0° - 180°	1186	100.0	100.0

ADDITIONAL DATA 65BEMW HL LED 27K

ENERGY DATA*	
CRI - 80	
Lumens	1090
Min. starting temp	-18°C (0°F)
Max temp	46°C (115°F)
EMI/RFI	FCC Title 47 CFR, Part 15, Class B
Sound Rating	A standards
Input voltage	120V
Min. power factor	0.99
Input frequency	50/60Hz
Rated wattage	11.7W
Input power	11.7W
Input current	0.1A

*Values at non-dimming line voltage.

ADDITIONAL DATA 65BEMW HL LED 40K

ENERGY DATA*	
CRI - 80	
Lumens	1110
Min. starting temp	-18°C (0°F)
Max. temp	46°C (115°F)
EMI/RFI	FCC Title 47 CFR, Part 15, Class B
Sound rating	A standards
Input voltage	120V
Min. power factor	0.99
Input frequency	50/60Hz
Rated wattage	11.9W
Input power	11.9W
Input current	0.1A

*Values at non-dimming line voltage.

LIGHTING FACTS

Lighting facts
A Program of the U.S. DOE

Light Output (Lumens) **1090**
Watts **11.7**
Lumens per Watt (Efficacy) **93.16**

Color Accuracy
Color Rendering Index (CRI) **80**

Light Color
Correlated Color Temperature (CCT) **2700 (Warm White)**

2700K 3000K 4500K 6500K

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Registration Number: NJSM-7B0H2S (11/2/2016)
Model Number: 65BEMW HLLED 27K
Type: Luminaire - Downlight

Lighting facts
A Program of the U.S. DOE

Light Output (Lumens) **1110**
Watts **11.9**
Lumens per Watt (Efficacy) **93.28**

Color Accuracy
Color Rendering Index (CRI) **80**

Light Color
Correlated Color Temperature (CCT) **4000 (Bright White)**

2700K 3000K 4500K 6500K

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Visit www.lightingfacts.com for the *Label Reference Guide*.

Registration Number: NJSM-YMQMDC (10/27/2016)
Model Number: 65BEMW HLLED 40K
Type: Luminaire - Downlight

DIMMER LIST ESERIES — High Lumen

Lutron	Leviton	Pass & Seymour	Cooper	Sensorswitch
DV-603P-LA	6633-PA	LS 603 PWV	DLC03P-W Devine	nSP5 PCD 2W
CT-603PR-WH	6615-P	H703PNICCV4		nSP5 PCD ELV 120
DVELV-300P	DW6HD-1BZ			
300P SELV				
DV-600P				
NTELV-300P				