

PLUS Series | P3RD 3-Inch Downlight Photometrics

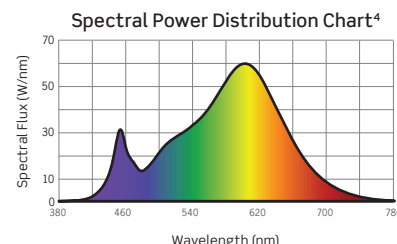
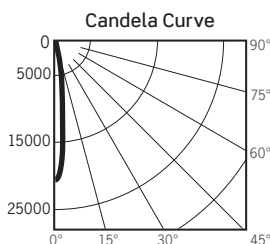
PHOTOMETRICS

P3RD-20L30KSMVD / P3RTR-CLR: 3-Inch Downlight, Spot Beam, Clear Reflector

LM-63 Test No. G24010403; LM-79 Test No. S23120401

Fixture Delivered Lumens: 2084.5
Total Watts@120V: 19.2
Lumens Per Watt: 108.6
Center Beam Candle Power: 20852
Beam Distribution: 14.8°
Spacing Criterion: 0.27
Color Rendering Index (CRI)¹: 82.6
Color Temperature (CCT)²: 3099K
Designed for 50,000 Hour Lamp Life³

Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (FT.)
6 FT	579.2	1.6
8 FT	325.8	2.1
10 FT	208.5	2.6
12 FT	144.8	3.1
14 FT	106.4	3.6
16 FT	81.5	4.2

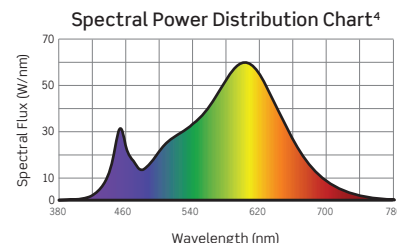
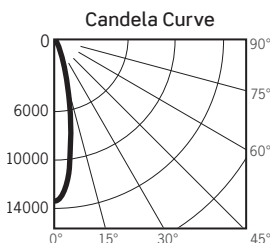


P3RD-25L30KNMVD / P3RTR-CLR: 3-Inch Downlight, Narrow Beam, Clear Reflector

LM-63 Test No. G23113001; LM-79 Test No. S23120401

Fixture Delivered Lumens: 2443.3
Total Watts@120V: 26.8
Lumens Per Watt: 91.2
Center Beam Candle Power: 13368
Beam Distribution: 20.5°
Spacing Criterion: 0.38
Color Rendering Index (CRI)¹: 82.6
Color Temperature (CCT)²: 3099K
Designed for 50,000 Hour Lamp Life³

Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (FT.)
6 FT	371.3	2.2
8 FT	208.9	2.9
10 FT	133.7	3.6
12 FT	92.8	4.3
14 FT	68.2	5.1
16 FT	52.2	5.8

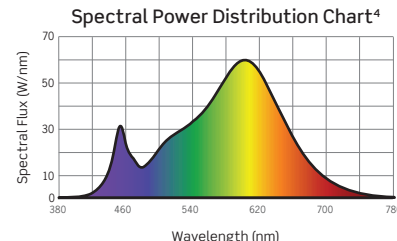
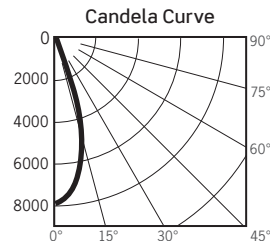


P3RD-25L30KMMVD / P3RTR-CLR: 3-Inch Downlight, Medium Beam, Clear Reflector

LM-63 Test No. G23112701; LM-79 Test No. S23120401

Fixture Delivered Lumens: 2823.8
Total Watts@120V: 26.9
Lumens Per Watt: 105
Center Beam Candle Power: 7875
Beam Distribution: 34.3°
Spacing Criterion: 0.56
Color Rendering Index (CRI)¹: 82.6
Color Temperature (CCT)²: 3099K
Designed for 50,000 Hour Lamp Life³

Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (FT.)
6 FT	218.8	3.7
8 FT	123.1	4.9
10 FT	78.8	6.2
12 FT	54.7	7.4
14 FT	40.2	8.6
16 FT	30.8	9.9

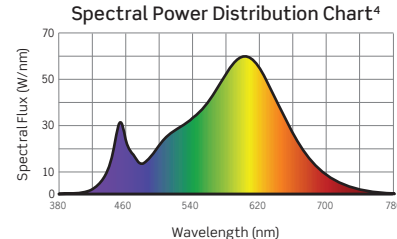
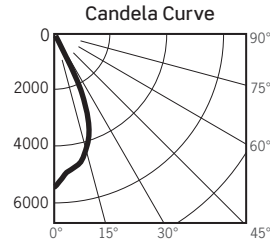


P3RD-25L30KFMVD / P3RTR-CLR: 3-Inch Downlight, Flood Beam, Clear Reflector

LM-63 Test No. G23111403; LM-79 Test No. S23120401

Fixture Delivered Lumens: 2786.3
Total Watts@120V: 26.8
Lumens Per Watt: 104
Center Beam Candle Power: 5418
Beam Distribution: 49.9°
Spacing Criterion: 0.69
Color Rendering Index (CRI)¹: 82.6
Color Temperature (CCT)²: 3099K
Designed for 50,000 Hour Lamp Life³

Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (FT.)
6 FT	150.5	5.6
8 FT	84.7	7.5
10 FT	54.2	9.3
12 FT	37.6	11.2
14 FT	27.6	13.0
16 FT	21.2	14.9



1. Accuracy of Rendering Colors 2. Color Appearance of Light Source 3. Dependent on Surrounding Temperatures 4. Colors Present within the Light Source

PHOTOMETRIC MULTIPLIERS

Lumen output values fluctuate based on Color Temperature (CCT), Color Rendering Index (CRI) and Wattage. To estimate lumen output of other combinations, multiply the published results by the following factors:

CCT MULTIPLIERS		
CCT	80+ CRI	90+ CRI
2700K	0.95	0.84
3000K	1.00	0.87
3500K	1.02	0.90
4000K	1.04	0.92

OUTPUT MULTIPLIERS				
BEAM	10L SERIES	15L SERIES	20L SERIES	25L SERIES
SPOT	0.54	0.74	1.00	N/A
ALL OTHERS	0.41	0.56	0.76	1.00

TRIM FINISH MULTIPLIERS		
FINISH	P3RTR REFLECTOR	P3RTB BEVEL
CLEAR (SPECULAR)	1.00	N/A
PLATINUM (SEMI-SPECULAR)	1.01	N/A
MATTE WHITE	1.00	1.00
MATTE BLACK	0.96	0.96

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PHOTOMETRICS

P3RD-25L30KWMVD / P3RTR-CLR: 3-Inch Downlight, Wide Flood Beam, Clear Reflector

LM-63 Test No. G23072503; LM-79 Test No. S23120401

Fixture Delivered Lumens: 2497.2

Total Watts@120V: 26.8

Lumens Per Watt: 93.2

Center Beam Candle Power: 2044

Beam Distribution: 72.9°

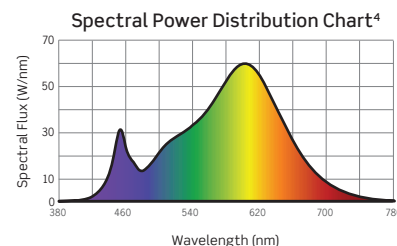
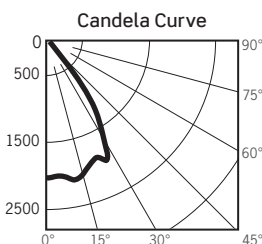
Spacing Criterion: 1.06

Color Rendering Index (CRI)¹: 82.6

Color Temperature (CCT)²: 3099K

Designed for 50,000 Hour Lamp Life³

Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (FT.)
6 FT	56.8	8.9
8 FT	31.9	11.8
10 FT	20.4	14.8
12 FT	14.2	17.7
14 FT	10.4	20.7
16 FT	8.0	23.6



P3RD-25L30KFMVD / P3RTB-WHT: 3-Inch Downlight, Flood Beam, White Bevel Trim

LM-63 Test No. G23121404; LM-79 Test No. S23120401

Fixture Delivered Lumens: 2469.3

Total Watts@120V: 27.0

Lumens Per Watt: 91.5

Center Beam Candle Power: 4224

Beam Distribution: 51.2°

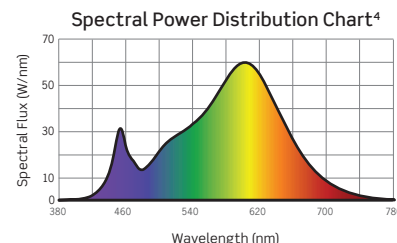
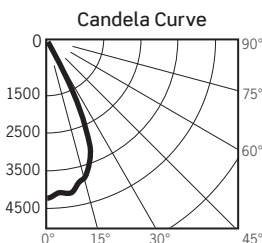
Spacing Criterion: 0.72

Color Rendering Index (CRI)¹: 82.6

Color Temperature (CCT)²: 3099K

Designed for 50,000 Hour Lamp Life³

Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (FT.)
6 FT	117.3	5.8
8 FT	66.0	7.7
10 FT	42.2	9.6
12 FT	29.3	11.5
14 FT	21.6	13.4
16 FT	16.5	15.3



1. Accuracy of Rendering Colors 2. Color Appearance of Light Source 3. Dependent on Surrounding Temperatures 4. Colors Present within the Light Source

PHOTOMETRIC MULTIPLIERS

Lumen output values fluctuate based on Color Temperature (CCT), Color Rendering Index (CRI) and Wattage. To estimate lumen output of other combinations, multiply the published results by the following factors:

CCT MULTIPLIERS		
CCT	80+ CRI	90+ CRI
2700K	0.95	0.84
3000K	1.00	0.87
3500K	1.02	0.90
4000K	1.04	0.92

OUTPUT MULTIPLIERS				
BEAM	10L SERIES	15L SERIES	20L SERIES	25L SERIES
SPOT	0.54	0.74	1.00	N/A
ALL OTHERS	0.41	0.56	0.76	1.00

TRIM FINISH MULTIPLIERS		
FINISH	P3RTR REFLECTOR	P3RTB BEVEL
CLEAR (SPECULAR)	1.00	N/A
PLATINUM (SEMI-SPECULAR)	1.01	N/A
MATTE WHITE	1.00	1.00
MATTE BLACK	0.96	0.96

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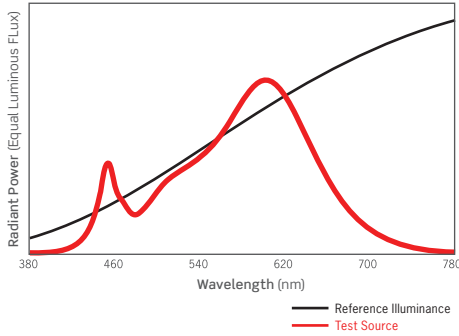
PHOTOMETRICS: TM-30 DATA

Colors are for visual orientation purposes only

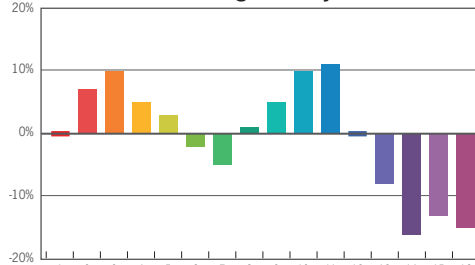
Clear Reflector, 80+ CRI

ANSI/IES TM-30-18 Color Rendition Report Test No. S23120401

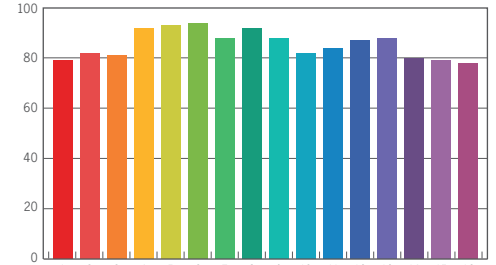
Spectral Power Distribution Comparison



Percentage Shift by Hue



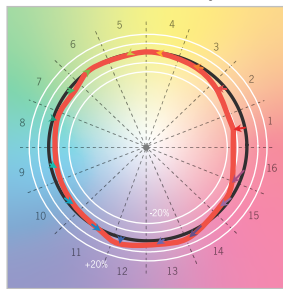
Rf by Hue



HUE BIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
HUE SHIFT	0%	7%	10%	5%	3%	-2%	-5%	1%	5%	10%	11%	0%	-8%	-16%	-13%	-15%
R _f VALUE	79	82	81	92	93	94	88	92	88	82	84	87	88	80	79	78

Color Vector Graphic

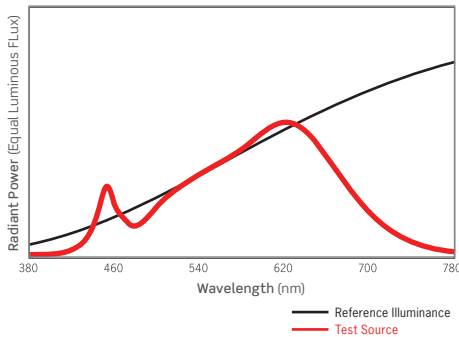
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R _g	94
CCT(K)	3099K
D _{uv}	0.0007
u ^t	0.2470
v ^t	0.5203



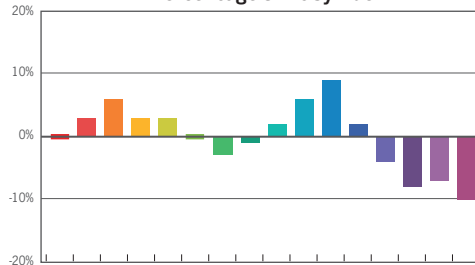
Clear Reflector, 90+ CRI

ANSI/IES TM-30-18 Color Rendition Report Test No. S23120402

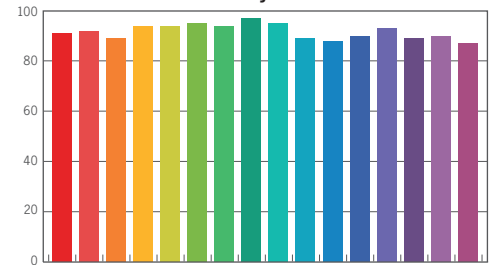
Spectral Power Distribution Comparison



Percentage Shift by Hue



Rf by Hue



HUE BIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
HUE SHIFT	0%	3%	6%	3%	3%	0%	-3%	-1%	2%	6%	9%	2%	-4%	-8%	-7%	-10%
R _f VALUE	91	92	89	94	94	95	94	97	95	89	88	90	93	89	90	87

Color Vector Graphic

R _f	92
R _g	100
CCT(K)	3024K
D _{uv}	-0.0004
u ^t	0.2499
v ^t	0.5203

