

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P247480

Luminaire Tested: **LSR8B100D010 EC8B100827 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-61)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100827 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9254.0 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

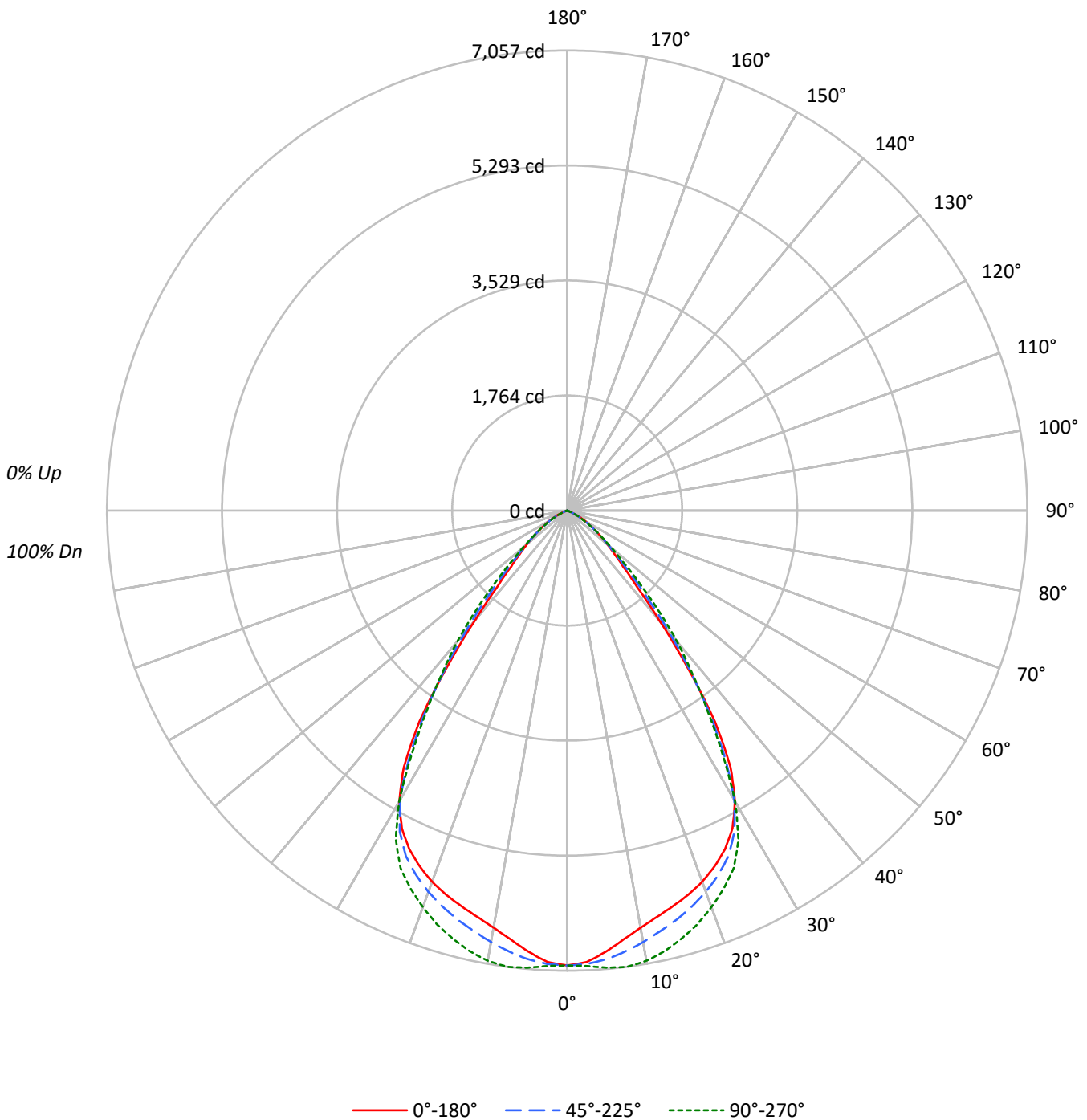
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94					92				
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85					84				
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78					76				
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71					69				
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65					63				
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60					58				
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55					53				
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51					49				
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47					46				
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44					42				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	215123	215123	215123
5°	210250	213797	217870
10°	203290	210389	219550
15°	200416	207264	216876
20°	198730	204170	212371
25°	194893	199041	205717
30°	183211	182516	183385
35°	148860	143861	141659
40°	88374	97402	105502
45°	52894	59540	67620
50°	38537	39530	42456
55°	27918	26934	27526
60°	18946	17515	16843
65°	9515	8807	8362
70°	2642	2308	2092
75°	1013	727	727
80°	426	426	213
85°	425	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	654.1	7.1
10°-20°	1836.9	19.8
20°-30°	2669.8	28.9
30°-40°	2361.0	25.5
40°-50°	1123.1	12.1
50°-60°	467.8	5.1
60°-70°	130.7	1.4
70°-80°	9.9	0.1
80°-90°	0.7	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5160.8	55.8
0°-40°	7521.7	81.3
0°-60°	9112.7	98.5
0°-90°	9254.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9254.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6976	6976	6976	6976	6976	
5°	6792	6826	6907	6998	7038	639
15°	6278	6335	6492	6690	6794	1773
25°	5728	5754	5850	5979	6046	2618
35°	3954	3898	3822	3763	3763	2367
45°	1213	1256	1365	1492	1551	1010
55°	519	513	501	501	512	472
65°	130	128	121	116	115	142
75°	8	7	6	6	6	12
85°	1	1	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6976.3	6976.3	6976.3	6976.3	6976.3
2.5°	6930.0	6936.1	6959.3	6981.2	6991.0
5°	6792.3	6826.4	6906.9	6998.3	7038.5
7.5°	6635.0	6686.2	6821.5	6982.4	7056.8
10°	6492.4	6557.0	6719.1	6917.8	7011.7
12.5°	6380.3	6440.0	6605.8	6813.0	6919.0
15°	6277.9	6335.1	6492.4	6689.9	6793.5
17.5°	6175.5	6230.3	6365.6	6549.7	6649.7
20°	6056.0	6099.9	6221.8	6383.9	6471.7
22.5°	5907.3	5947.5	6049.9	6193.7	6273.0
25°	5728.1	5753.7	5850.0	5979.2	6046.2
27.5°	5490.4	5496.5	5555.0	5639.1	5689.1
30°	5145.4	5141.7	5125.9	5122.2	5150.3
32.5°	4662.7	4609.0	4516.4	4472.5	4438.4
35°	3954.4	3898.4	3821.6	3763.1	3763.1
37.5°	3023.1	3071.9	3102.4	3138.9	3157.2
40°	2195.4	2267.3	2419.7	2578.2	2620.9
42.5°	1595.7	1662.7	1827.3	2004.0	2055.2
45°	1212.9	1255.6	1365.3	1492.1	1550.6
47.5°	980.1	992.3	1047.1	1122.7	1150.7
50°	803.3	807.0	824.0	863.1	885.0
52.5°	649.7	647.3	652.2	663.1	672.9
55°	519.3	513.2	501.0	501.0	512.0
57.5°	401.1	392.5	379.1	373.0	369.4
60°	307.2	298.7	284.0	274.3	273.1
62.5°	220.6	213.3	198.7	190.2	187.7
65°	130.4	128.0	120.7	115.8	114.6
67.5°	61.0	58.5	52.4	50.0	48.8
70°	29.3	28.0	25.6	24.4	23.2
72.5°	14.6	14.6	12.2	12.2	12.2
75°	8.5	7.3	6.1	6.1	6.1
77.5°	4.9	3.7	3.7	3.7	3.7
80°	2.4	2.4	2.4	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2
85°	1.2	1.2	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)