

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: P247528

Luminaire Tested: **LSR8B100D010 EC8B100827 8LBS0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247528
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-86)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100827 8LBS0GPH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10189.0 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

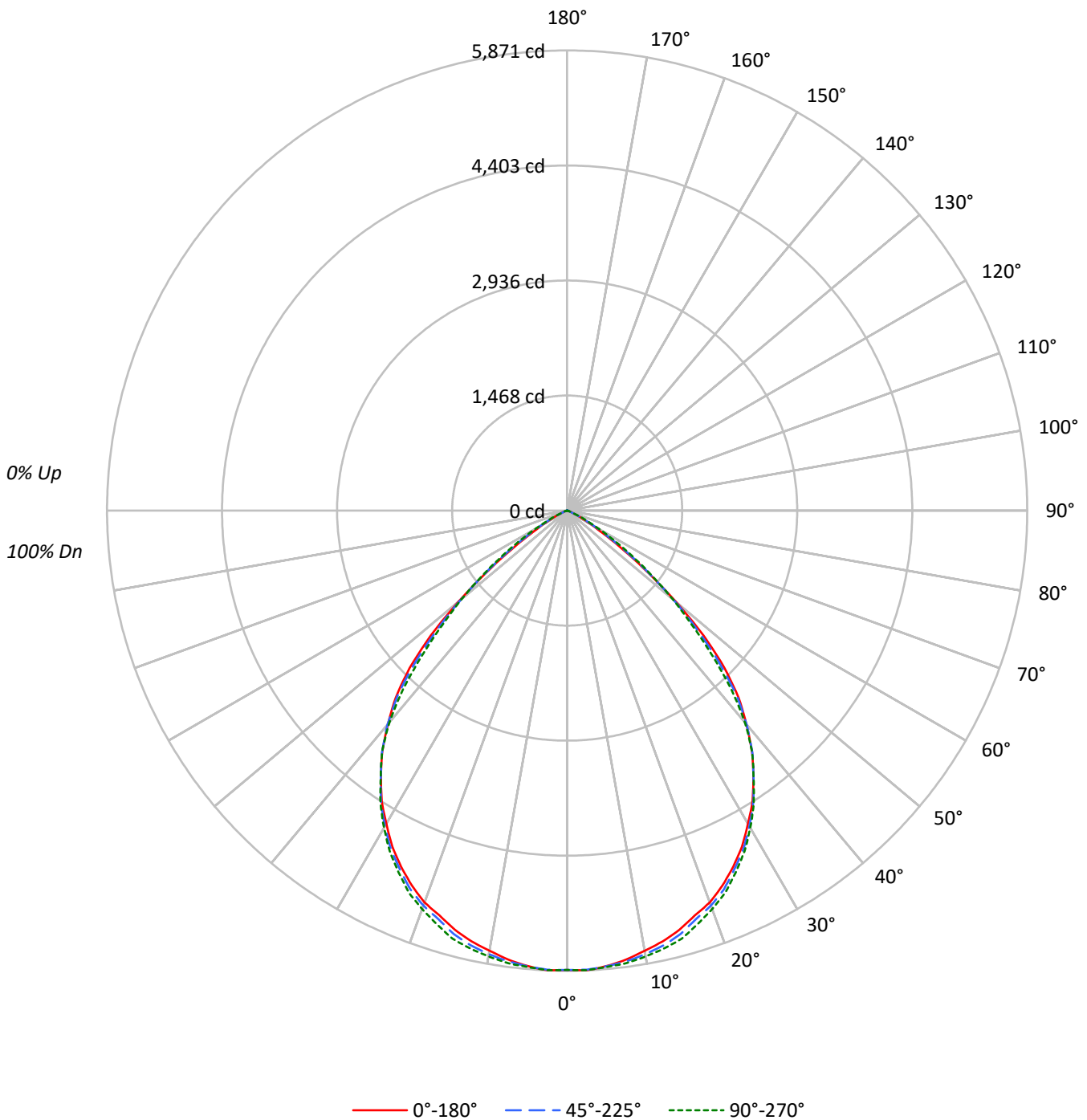
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	180747	180747	180747
5°	180534	180608	180871
10°	178572	179947	180864
15°	176732	178561	180508
20°	174584	175985	177505
25°	170563	171808	173217
30°	164304	165561	166429
35°	155896	156035	156080
40°	143248	143493	142020
45°	123928	119568	114252
50°	86908	85152	84044
55°	47192	51122	54466
60°	20827	25415	28795
65°	8004	10055	12010
70°	4066	3624	4724
75°	1311	2466	2180
80°	1083	213	1296
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.4	5.4
10°-20°	1574.6	15.5
20°-30°	2322.2	22.8
30°-40°	2584.7	25.4
40°-50°	2080.1	20.4
50°-60°	884.5	8.7
60°-70°	165.8	1.6
70°-80°	20.1	0.2
80°-90°	2.5	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
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0°-30°	4451.2	43.7
0°-40°	7035.9	69.1
0°-60°	10000.6	98.2
0°-90°	10189.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10189.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5862	5862	5862	5862	5862	
5°	5832	5834	5835	5844	5843	553
15°	5536	5566	5593	5636	5654	1560
25°	5013	5031	5050	5079	5091	2304
35°	4141	4143	4145	4146	4146	2579
45°	2842	2819	2742	2659	2620	2137
55°	878	897	951	989	1013	836
65°	110	122	138	148	165	142
75°	11	13	21	20	18	18
85°	0	0	0	0	0	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5861.5	5861.5	5861.5	5861.5	5861.5
2.5°	5871.3	5874.9	5862.7	5865.2	5868.8
5°	5832.3	5833.5	5834.7	5844.4	5843.2
7.5°	5777.4	5785.9	5800.6	5818.8	5823.7
10°	5703.0	5725.0	5746.9	5768.9	5776.2
12.5°	5629.9	5643.3	5682.3	5704.2	5722.5
15°	5536.0	5566.5	5593.3	5636.0	5654.3
17.5°	5416.5	5438.5	5464.1	5506.8	5532.4
20°	5320.2	5326.3	5362.9	5400.7	5409.2
22.5°	5177.6	5191.0	5228.8	5254.4	5276.3
25°	5013.0	5031.3	5049.6	5078.8	5091.0
27.5°	4832.6	4843.6	4869.2	4889.9	4900.8
30°	4614.4	4638.7	4649.7	4659.5	4674.1
32.5°	4402.2	4409.5	4419.3	4425.4	4432.7
35°	4141.3	4142.6	4145.0	4146.2	4146.2
37.5°	3874.4	3882.9	3880.4	3873.1	3876.8
40°	3558.6	3573.2	3564.7	3542.8	3528.1
42.5°	3240.4	3233.1	3203.8	3138.0	3107.5
45°	2841.8	2818.6	2741.8	2658.9	2619.9
47.5°	2363.9	2312.7	2248.1	2183.4	2157.8
50°	1811.6	1804.3	1775.0	1749.4	1751.9
52.5°	1298.4	1316.6	1322.7	1347.1	1359.3
55°	877.8	897.3	950.9	988.7	1013.1
57.5°	534.0	571.8	629.1	691.2	722.9
60°	337.7	359.6	412.1	452.3	466.9
62.5°	210.9	212.1	237.7	269.4	282.8
65°	109.7	121.9	137.8	147.5	164.6
67.5°	68.3	68.3	67.1	81.7	91.4
70°	45.1	39.0	40.2	48.8	52.4
72.5°	15.8	26.8	24.4	24.4	17.1
75°	11.0	13.4	20.7	19.5	18.3
77.5°	14.6	13.4	9.8	8.5	17.1
80°	6.1	4.9	1.2	7.3	7.3
82.5°	6.1	2.4	7.3	9.8	6.1
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	1.2	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)