

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: P247196

Luminaire Tested: **LSR8B100D010 EC8B100830 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-83)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100830 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11444.0 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

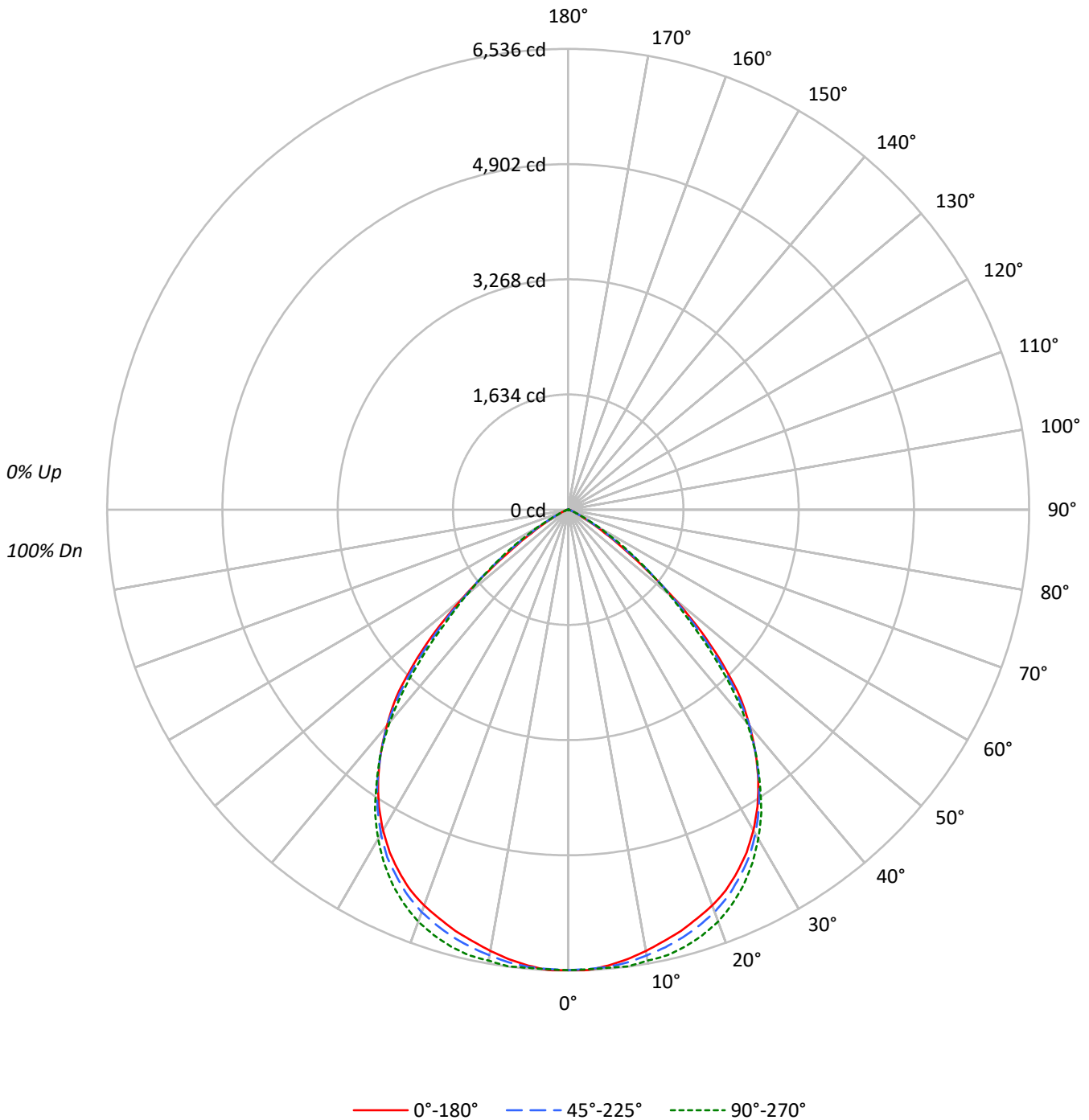
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48					48			
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	201389	201389	201389
5°	200880	201462	201886
10°	198975	200973	203321
15°	197399	200512	204822
20°	196022	199261	204059
25°	192954	195632	199970
30°	186978	189025	191917
35°	176837	177635	178294
40°	161076	160923	158762
45°	135428	131338	125673
50°	94065	91964	89508
55°	50321	55627	58923
60°	24355	27666	31213
65°	10667	10762	11215
70°	5743	5292	5184
75°	5064	4611	3276
80°	213	888	0
85°	425	425	2194



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	618.7	5.4
10°-20°	1774.2	15.5
20°-30°	2647.3	23.1
30°-40°	2931.8	25.6
40°-50°	2286.4	20.0
50°-60°	958.3	8.4
60°-70°	192.0	1.7
70°-80°	30.5	0.3
80°-90°	4.8	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°	5040.1	44.0
0°-40°	7972.0	69.7
0°-60°	11216.7	98.0
0°-90°	11444.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11444.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6531	6531	6531	6531	6531	
5°	6490	6495	6508	6526	6522	615
15°	6183	6211	6281	6373	6416	1744
25°	5671	5694	5750	5838	5877	2606
35°	4698	4690	4719	4741	4736	2920
45°	3106	3092	3012	2919	2882	2349
55°	936	972	1035	1076	1096	912
65°	146	146	148	159	154	176
75°	42	39	39	30	28	34
85°	1	2	1	0	6	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6530.9	6530.9	6530.9	6530.9	6530.9
2.5°	6535.8	6523.4	6520.9	6528.4	6523.4
5°	6489.6	6494.6	6508.4	6525.9	6522.1
7.5°	6429.6	6438.4	6475.9	6520.9	6532.1
10°	6354.6	6373.4	6418.4	6469.6	6493.4
12.5°	6267.2	6292.2	6357.1	6430.9	6474.6
15°	6183.4	6210.9	6280.9	6373.4	6415.9
17.5°	6078.5	6114.7	6183.4	6283.4	6327.2
20°	5973.5	6006.0	6072.2	6169.7	6218.4
22.5°	5843.5	5867.3	5929.8	6012.2	6062.2
25°	5671.1	5693.6	5749.8	5838.5	5877.3
27.5°	5478.6	5504.9	5556.1	5617.3	5652.3
30°	5251.2	5272.4	5308.7	5363.6	5389.9
32.5°	4995.0	4996.2	5032.5	5073.7	5097.5
35°	4697.6	4690.1	4718.8	4741.3	4736.3
37.5°	4368.9	4370.1	4367.6	4370.1	4375.1
40°	4001.5	3984.0	3997.7	3966.5	3944.0
42.5°	3611.6	3594.1	3540.4	3471.6	3434.1
45°	3105.5	3091.7	3011.7	2919.3	2881.8
47.5°	2549.4	2506.9	2441.9	2363.2	2326.9
50°	1960.8	1955.8	1917.0	1898.3	1865.8
52.5°	1402.1	1402.1	1449.6	1442.1	1440.9
55°	936.0	972.3	1034.7	1076.0	1096.0
57.5°	609.8	643.6	696.1	739.8	759.8
60°	394.9	411.1	448.6	482.4	506.1
62.5°	244.9	258.7	278.7	299.9	308.7
65°	146.2	146.2	147.5	158.7	153.7
67.5°	98.7	102.5	97.5	97.5	110.0
70°	63.7	60.0	58.7	57.5	57.5
72.5°	41.2	35.0	37.5	40.0	35.0
75°	42.5	38.7	38.7	30.0	27.5
77.5°	15.0	16.2	11.2	8.7	7.5
80°	1.2	5.0	5.0	1.2	0.0
82.5°	15.0	13.7	11.2	17.5	11.2
85°	1.2	2.5	1.2	0.0	6.2
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)