

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: P247448

Luminaire Tested: **LSR8B100D010 EC8B100850 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247448  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100850 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12283.0 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

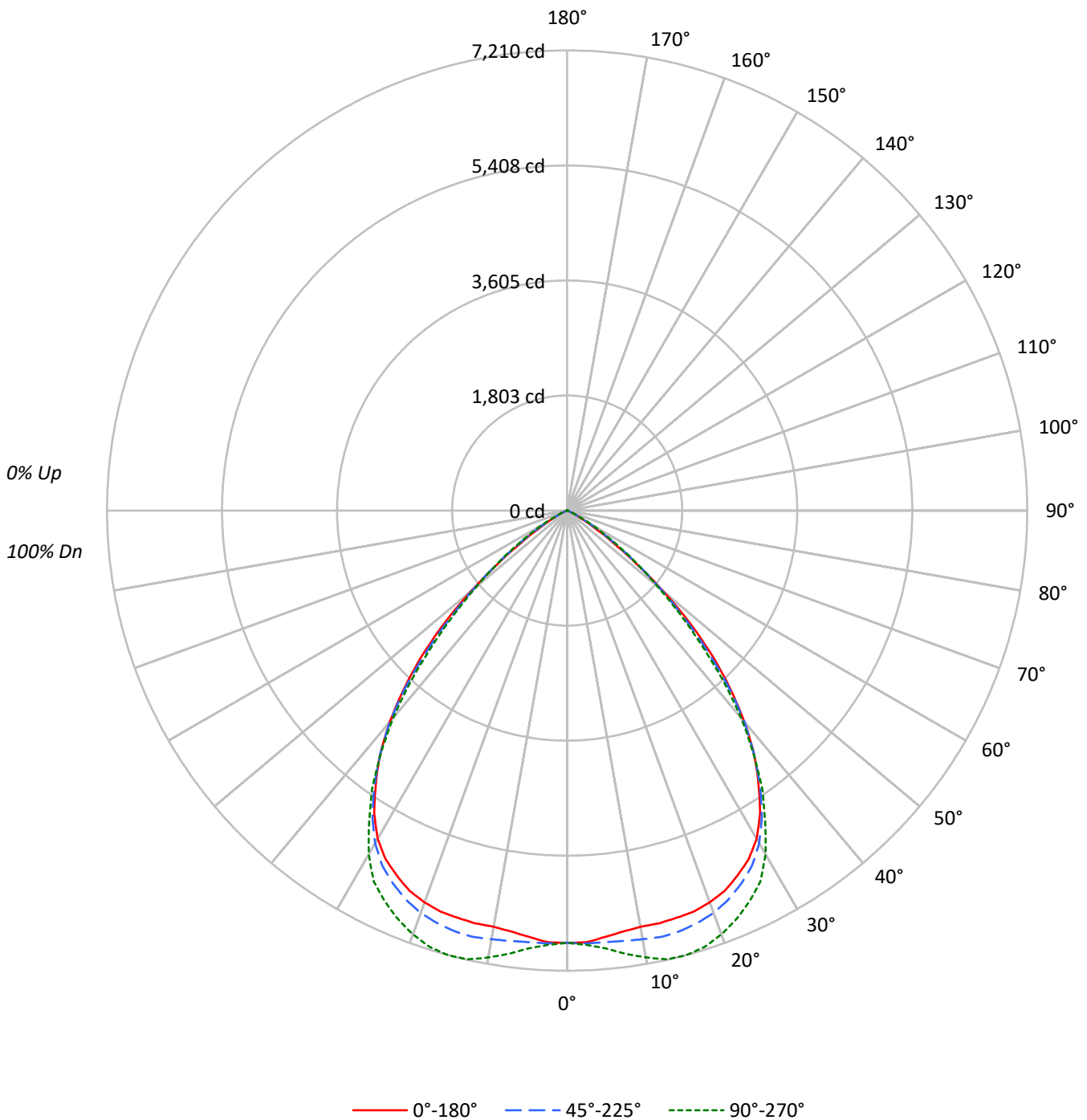
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	101	99	99	97	96	96	94	93	91					91			
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82					82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49					49			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	208827	208827	208827
5°	207668	210154	213088
10°	207307	213532	222597
15°	210939	217831	230186
20°	214366	220112	231860
25°	214740	219486	229877
30°	211465	214231	221353
35°	196808	198095	200576
40°	173945	173736	170608
45°	140116	134892	129667
50°	94084	91623	88529
55°	47767	51869	55052
60°	19563	23947	27925
65°	7296	7778	9121
70°	478	478	352
75°	941	1573	2037
80°	231	0	0
85°	920	0	920



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	650.3	5.3
10°-20°	1938.0	15.8
20°-30°	2982.2	24.3
30°-40°	3266.3	26.6
40°-50°	2375.0	19.3
50°-60°	913.6	7.4
60°-70°	143.1	1.2
70°-80°	10.3	0.1
80°-90°	4.1	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°	5570.5	45.4
0°-40°	8836.9	71.9
0°-60°	12125.5	98.7
0°-90°	12283.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12283.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6772	6772	6772	6772	6772	
5°	6709	6743	6789	6854	6884	638
15°	6608	6659	6823	7076	7210	1869
25°	6311	6350	6451	6642	6756	2903
35°	5228	5228	5262	5295	5328	3247
45°	3213	3180	3093	3014	2973	2443
55°	888	912	965	996	1024	868
65°	100	104	107	121	125	122
75°	8	17	13	17	17	10
85°	3	0	0	0	3	6
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6772.1	6772.1	6772.1	6772.1	6772.1
2.5°	6770.8	6781.3	6787.9	6802.3	6808.9
5°	6708.9	6743.1	6789.2	6853.7	6884.0
7.5°	6654.9	6702.3	6801.0	6940.6	7002.4
10°	6620.7	6672.0	6819.5	7009.0	7109.0
12.5°	6624.7	6681.3	6840.5	7068.2	7202.5
15°	6607.5	6658.9	6823.4	7076.1	7210.4
17.5°	6587.8	6629.9	6776.0	7023.5	7168.3
20°	6532.5	6568.1	6707.6	6931.3	7065.6
22.5°	6449.6	6482.5	6598.3	6806.3	6930.0
25°	6311.4	6349.6	6450.9	6641.8	6756.3
27.5°	6157.4	6179.8	6273.2	6447.0	6556.2
30°	5938.9	5946.8	6016.6	6150.8	6216.6
32.5°	5626.9	5625.6	5678.3	5745.4	5770.4
35°	5228.1	5228.1	5262.3	5295.2	5328.2
37.5°	4813.5	4808.2	4812.2	4820.1	4792.4
40°	4321.2	4310.7	4316.0	4268.6	4238.3
42.5°	3781.6	3790.8	3738.1	3653.9	3622.3
45°	3213.0	3180.0	3093.2	3014.2	2973.4
47.5°	2608.8	2557.5	2474.5	2392.9	2386.4
50°	1961.2	1963.8	1909.9	1863.8	1845.4
52.5°	1361.0	1375.5	1403.1	1408.4	1415.0
55°	888.5	912.2	964.8	996.4	1024.0
57.5°	543.6	587.0	631.8	691.0	696.3
60°	317.2	338.3	388.3	433.0	452.8
62.5°	179.0	198.8	209.3	235.6	242.2
65°	100.0	104.0	106.6	121.1	125.0
67.5°	60.5	63.2	65.8	64.5	67.1
70°	5.3	11.8	5.3	6.6	3.9
72.5°	22.4	14.5	15.8	11.8	7.9
75°	7.9	17.1	13.2	17.1	17.1
77.5°	5.3	3.9	6.6	7.9	6.6
80°	1.3	0.0	0.0	0.0	0.0
82.5°	11.8	10.5	6.6	10.5	3.9
85°	2.6	0.0	0.0	0.0	2.6
87.5°	7.9	3.9	3.9	9.2	2.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)