

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: P247104

Luminaire Tested: **LSR8B100D010 EC8B100835 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247104  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-82)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100835 8LBS0LI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12218.0 lumens  
Efficiency: N/A  
Efficacy: 114.9 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.31 / 1.25  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

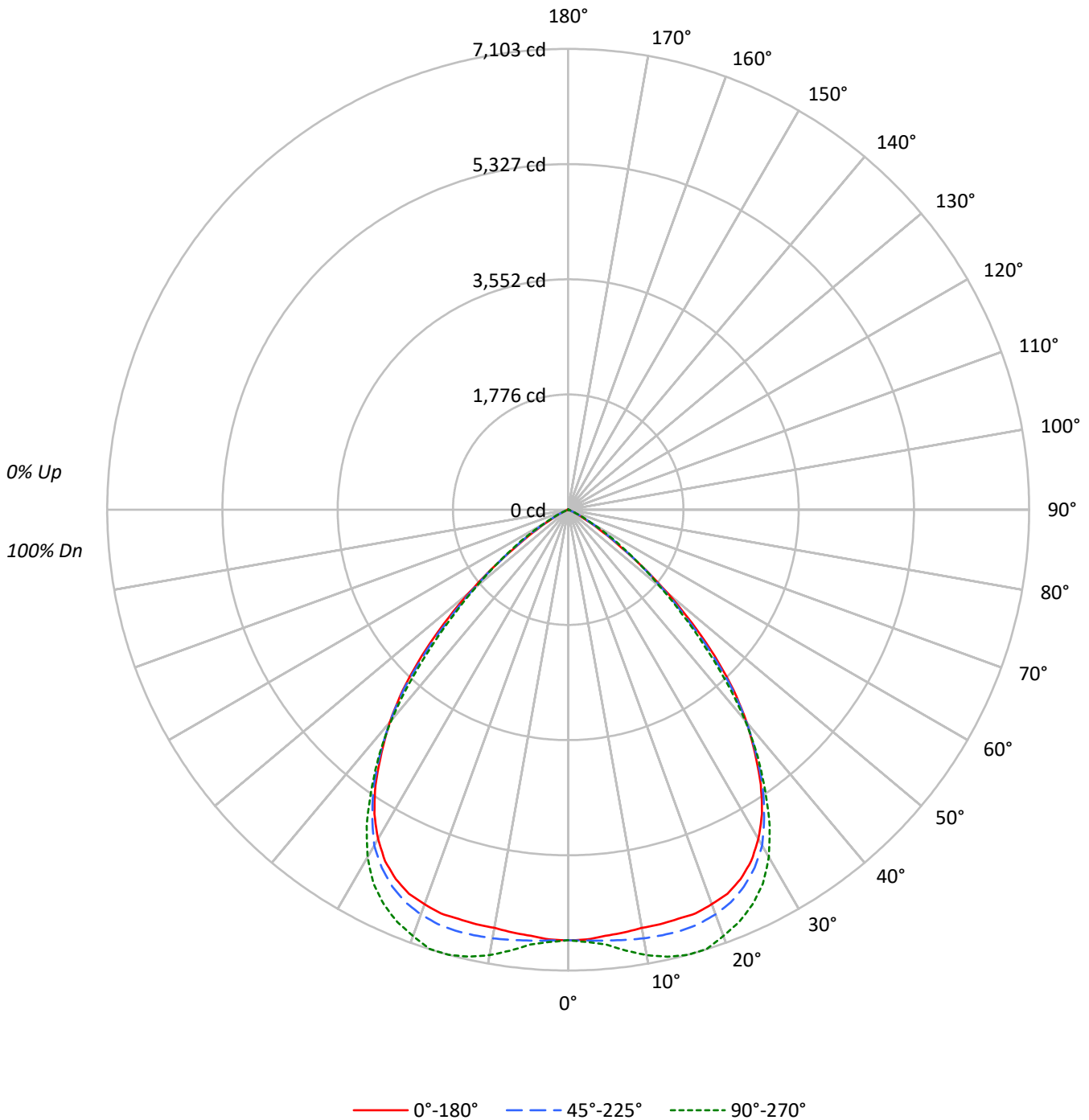
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37

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

	0°	45°	90°
0°	204651	204651	204651
5°	204105	206359	208290
10°	204918	210088	218307
15°	208468	214485	226763
20°	212325	217828	229428
25°	213736	218071	228506
30°	208687	212850	220071
35°	194797	196804	199153
40°	172259	172102	170798
45°	139296	135332	129380
50°	95696	92017	89023
55°	49256	52396	56100
60°	20518	24287	27247
65°	7968	8442	9960
70°	2110	1993	2696
75°	929	1704	1549
80°	1385	1616	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	638.6	5.2
10°-20°	1912.0	15.6
20°-30°	2958.6	24.2
30°-40°	3240.6	26.5
40°-50°	2370.8	19.4
50°-60°	930.2	7.6
60°-70°	150.6	1.2
70°-80°	13.9	0.1
80°-90°	2.8	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°	5509.2	45.1
0°-40°	8749.8	71.6
0°-60°	12050.8	98.6
0°-90°	12218.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12218.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6637	6637	6637	6637	6637	
5°	6594	6609	6667	6715	6729	628
15°	6530	6573	6719	6968	7103	1849
25°	6282	6301	6409	6603	6716	2880
35°	5175	5184	5228	5277	5290	3204
45°	3194	3189	3103	3008	2967	2432
55°	916	936	975	1010	1044	901
65°	109	107	116	127	136	132
75°	8	12	14	10	13	13
85°	0	0	0	0	0	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6636.7	6636.7	6636.7	6636.7	6636.7
2.5°	6630.2	6634.1	6647.1	6660.1	6667.9
5°	6593.8	6609.4	6666.6	6714.7	6729.0
7.5°	6571.7	6597.7	6687.4	6808.2	6855.0
10°	6544.4	6582.1	6709.5	6881.0	6972.0
12.5°	6545.7	6582.1	6717.3	6940.8	7057.7
15°	6530.1	6573.0	6718.6	6968.1	7103.2
17.5°	6526.2	6547.0	6695.2	6948.6	7098.0
20°	6470.3	6498.9	6638.0	6862.8	6991.5
22.5°	6409.3	6422.3	6549.6	6770.5	6879.7
25°	6281.9	6301.4	6409.3	6602.9	6716.0
27.5°	6106.5	6110.4	6219.5	6398.9	6497.6
30°	5860.9	5880.4	5977.8	6110.4	6180.6
32.5°	5556.8	5554.2	5617.9	5733.5	5779.0
35°	5174.7	5183.8	5228.0	5277.4	5290.4
37.5°	4726.4	4738.1	4768.0	4784.9	4796.6
40°	4279.3	4279.3	4275.4	4257.3	4243.0
42.5°	3769.9	3753.0	3733.5	3653.0	3617.9
45°	3194.2	3189.0	3103.3	3008.4	2966.8
47.5°	2588.7	2560.1	2470.4	2393.7	2376.8
50°	1994.8	1964.9	1918.1	1880.4	1855.7
52.5°	1421.7	1399.6	1419.1	1419.1	1416.5
55°	916.2	935.7	974.6	1009.7	1043.5
57.5°	580.9	606.9	666.7	712.1	723.8
60°	332.7	352.2	393.8	434.0	441.8
62.5°	209.2	210.5	237.8	261.2	275.5
65°	109.2	106.6	115.7	127.4	136.5
67.5°	45.5	45.5	54.6	53.3	67.6
70°	23.4	19.5	22.1	26.0	29.9
72.5°	16.9	13.0	18.2	23.4	10.4
75°	7.8	11.7	14.3	10.4	13.0
77.5°	10.4	10.4	7.8	13.0	2.6
80°	7.8	5.2	9.1	3.9	0.0
82.5°	1.3	2.6	1.3	1.3	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	9.1	3.9	6.5	5.2	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)