

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: P247108

Luminaire Tested: **LSR8B100D010 EC8B100840 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247108  
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 EC8B100840 8LBS0LI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12138.0 lumens  
Efficiency: N/A  
Efficacy: 114.2 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

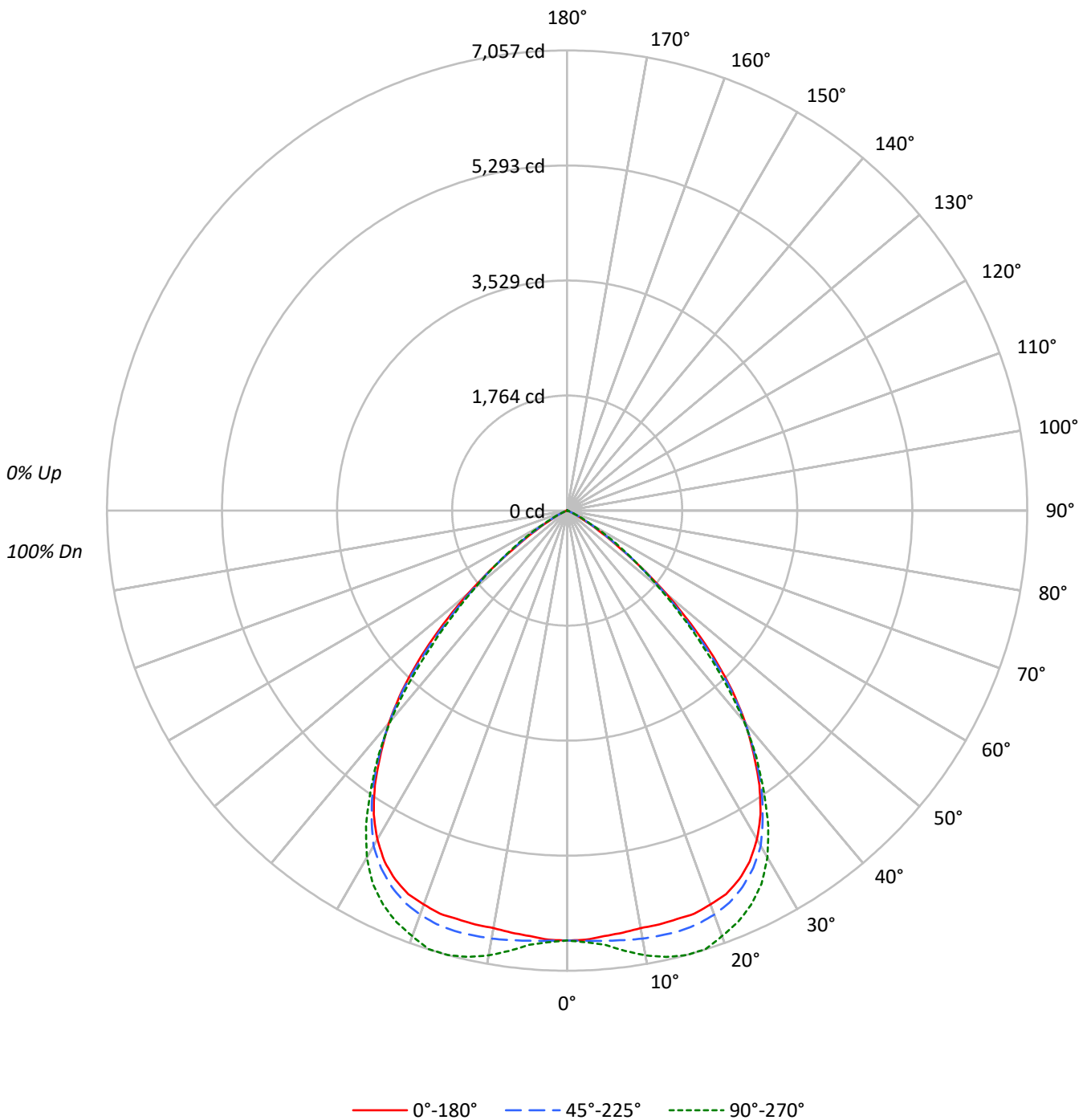
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	203310	203310	203310
5°	202768	205006	206925
10°	203578	208710	216876
15°	207104	213081	225279
20°	210937	216401	227925
25°	212338	216642	227009
30°	207320	211458	218629
35°	193521	195516	197847
40°	171132	170979	169678
45°	138385	134447	128534
50°	95068	91412	88443
55°	48934	52057	55735
60°	20383	24126	27068
65°	7909	8384	9894
70°	2092	1974	2678
75°	917	1692	1537
80°	1367	1598	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	634.4	5.2
10°-20°	1899.5	15.6
20°-30°	2939.2	24.2
30°-40°	3219.4	26.5
40°-50°	2355.3	19.4
50°-60°	924.1	7.6
60°-70°	149.6	1.2
70°-80°	13.8	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°	5473.1	45.1
0°-40°	8692.5	71.6
0°-60°	11971.9	98.6
0°-90°	12138.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12138.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6593	6593	6593	6593	6593	
5°	6551	6566	6623	6671	6685	624
15°	6487	6530	6675	6922	7057	1837
25°	6241	6260	6367	6560	6672	2862
35°	5141	5150	5194	5243	5256	3183
45°	3173	3168	3083	2989	2947	2417
55°	910	930	968	1003	1037	895
65°	108	106	115	126	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°	6593.2	6593.2	6593.2	6593.2	6593.2
2.5°	6586.8	6590.6	6603.6	6616.5	6624.2
5°	6550.6	6566.1	6622.9	6670.7	6684.9
7.5°	6528.7	6554.5	6643.6	6763.6	6810.1
10°	6501.6	6539.0	6665.5	6835.9	6926.3
12.5°	6502.9	6539.0	6673.3	6895.3	7011.5
15°	6487.4	6530.0	6674.6	6922.4	7056.7
17.5°	6483.5	6504.2	6651.3	6903.1	7051.5
20°	6428.0	6456.4	6594.5	6817.9	6945.7
22.5°	6367.3	6380.2	6506.7	6726.2	6834.7
25°	6240.8	6260.1	6367.3	6559.7	6672.0
27.5°	6066.5	6070.4	6178.8	6357.0	6455.1
30°	5822.5	5841.9	5938.7	6070.4	6140.1
32.5°	5520.4	5517.8	5581.1	5696.0	5741.2
35°	5140.8	5149.9	5193.8	5242.8	5255.7
37.5°	4695.4	4707.1	4736.7	4753.5	4765.1
40°	4251.3	4251.3	4247.5	4229.4	4215.2
42.5°	3745.2	3728.5	3709.1	3629.1	3594.2
45°	3173.3	3168.2	3083.0	2988.7	2947.4
47.5°	2571.7	2543.3	2454.2	2378.1	2361.3
50°	1981.7	1952.0	1905.5	1868.1	1843.6
52.5°	1412.4	1390.4	1409.8	1409.8	1407.2
55°	910.2	929.5	968.3	1003.1	1036.7
57.5°	577.1	602.9	662.3	707.5	719.1
60°	330.5	349.9	391.2	431.2	438.9
62.5°	207.9	209.1	236.3	259.5	273.7
65°	108.4	105.9	114.9	126.5	135.6
67.5°	45.2	45.2	54.2	52.9	67.1
70°	23.2	19.4	21.9	25.8	29.7
72.5°	16.8	12.9	18.1	23.2	10.3
75°	7.7	11.6	14.2	10.3	12.9
77.5°	10.3	10.3	7.7	12.9	2.6
80°	7.7	5.2	9.0	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°	9.0	3.9	6.5	5.2	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)