

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: P247106

Luminaire Tested: **LSR8B80D010 EC8B80840 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247106  
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: LSR8B80D010 EC8B80840 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: 9340.0 lumens  
Efficiency: N/A  
Efficacy: 125.5 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

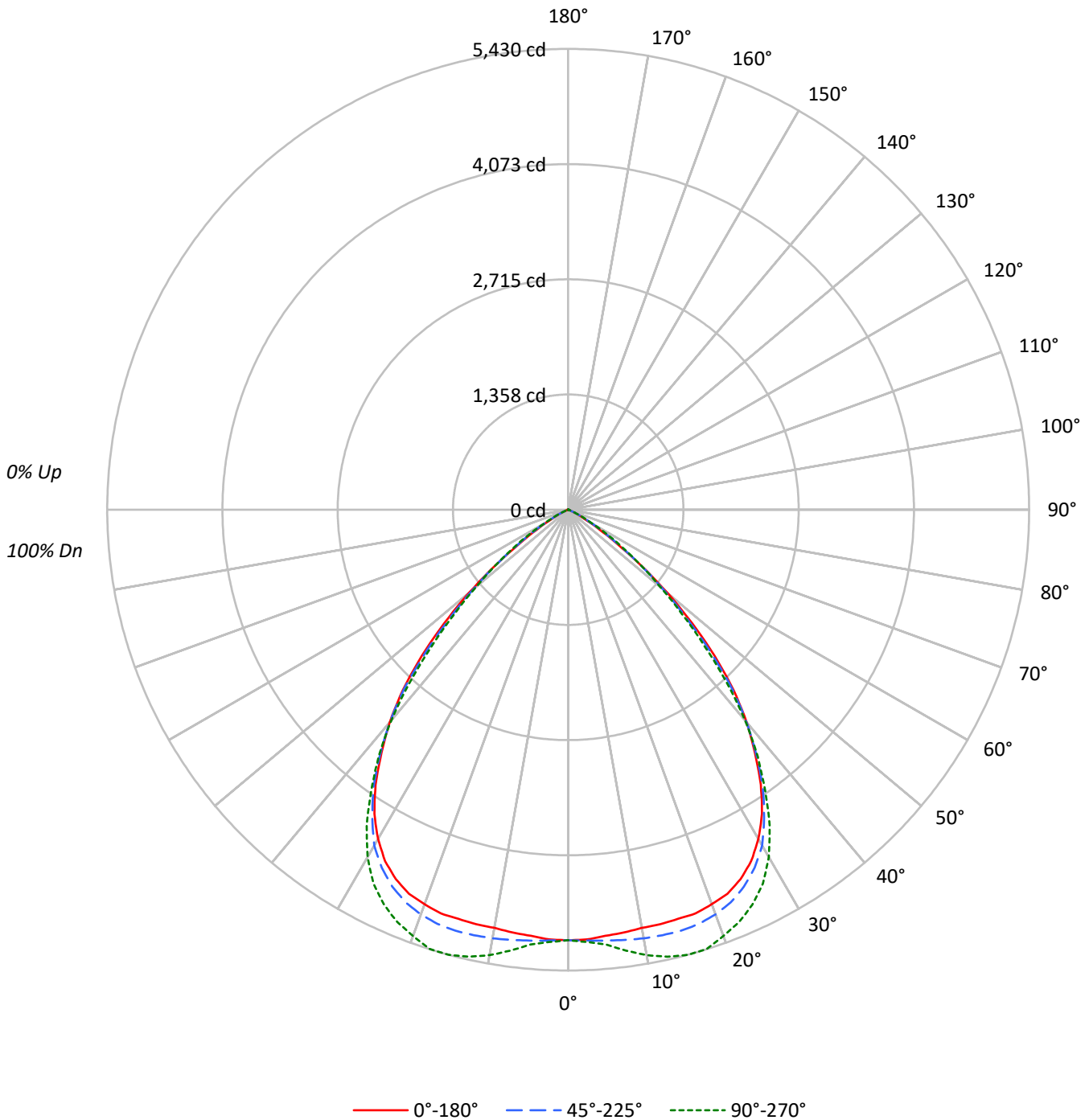
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	156445	156445	156445
5°	156027	157748	159225
10°	156651	160599	166884
15°	159362	163962	173348
20°	162311	166518	175385
25°	163391	166701	174680
30°	159529	162712	168231
35°	148913	150445	152241
40°	131683	131562	130564
45°	106485	103454	98906
50°	73154	70343	68054
55°	37655	40058	42886
60°	15683	18563	20833
65°	6085	6450	7610
70°	1614	1524	2056
75°	715	1299	1180
80°	1065	1243	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	488.2	5.2
10°-20°	1461.6	15.6
20°-30°	2261.7	24.2
30°-40°	2477.2	26.5
40°-50°	1812.3	19.4
50°-60°	711.1	7.6
60°-70°	115.1	1.2
70°-80°	10.6	0.1
80°-90°	2.1	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°	4211.5	45.1
0°-40°	6688.7	71.6
0°-60°	9212.2	98.6
0°-90°	9340.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9340.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5073	5073	5073	5073	5073	
5°	5041	5052	5096	5133	5144	480
15°	4992	5025	5136	5327	5430	1414
25°	4802	4817	4900	5048	5134	2202
35°	3956	3963	3996	4034	4044	2449
45°	2442	2438	2372	2300	2268	1859
55°	700	715	745	772	798	689
65°	83	82	88	97	104	101
75°	6	9	11	8	10	10
85°	0	0	0	0	0	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5073.4	5073.4	5073.4	5073.4	5073.4
2.5°	5068.4	5071.4	5081.3	5091.3	5097.2
5°	5040.6	5052.5	5096.2	5133.0	5143.9
7.5°	5023.7	5043.6	5112.1	5204.5	5240.3
10°	5002.9	5031.7	5129.0	5260.1	5329.7
12.5°	5003.8	5031.7	5135.0	5305.8	5395.3
15°	4991.9	5024.7	5136.0	5326.7	5430.0
17.5°	4988.9	5004.8	5118.1	5311.8	5426.1
20°	4946.2	4968.1	5074.4	5246.2	5344.6
22.5°	4899.5	4909.5	5006.8	5175.7	5259.2
25°	4802.2	4817.1	4899.5	5047.6	5134.0
27.5°	4668.1	4671.1	4754.5	4891.6	4967.1
30°	4480.3	4495.2	4569.7	4671.1	4724.7
32.5°	4247.9	4245.9	4294.5	4383.0	4417.7
35°	3955.8	3962.7	3996.5	4034.3	4044.2
37.5°	3613.1	3622.0	3644.9	3657.8	3666.7
40°	3271.3	3271.3	3268.3	3254.4	3243.5
42.5°	2881.9	2869.0	2854.1	2792.5	2765.7
45°	2441.8	2437.8	2372.3	2299.8	2268.0
47.5°	1978.9	1957.0	1888.5	1829.9	1817.0
50°	1524.9	1502.0	1466.3	1437.5	1418.6
52.5°	1086.8	1069.9	1084.8	1084.8	1082.8
55°	700.4	715.3	745.1	771.9	797.7
57.5°	444.1	463.9	509.6	544.4	553.3
60°	254.3	269.2	301.0	331.8	337.8
62.5°	159.9	160.9	181.8	199.7	210.6
65°	83.4	81.5	88.4	97.4	104.3
67.5°	34.8	34.8	41.7	40.7	51.7
70°	17.9	14.9	16.9	19.9	22.8
72.5°	12.9	9.9	13.9	17.9	7.9
75°	6.0	8.9	10.9	7.9	9.9
77.5°	7.9	7.9	6.0	9.9	2.0
80°	6.0	4.0	7.0	3.0	0.0
82.5°	1.0	2.0	1.0	1.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	7.0	3.0	5.0	4.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)