

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: P247131

Luminaire Tested: **LSR8B90D010 EC8B90950 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247131  
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: LSR8B90D010 EC8B90950 8LBS0LI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9765.0 lumens  
Efficiency: N/A  
Efficacy: 113.4 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

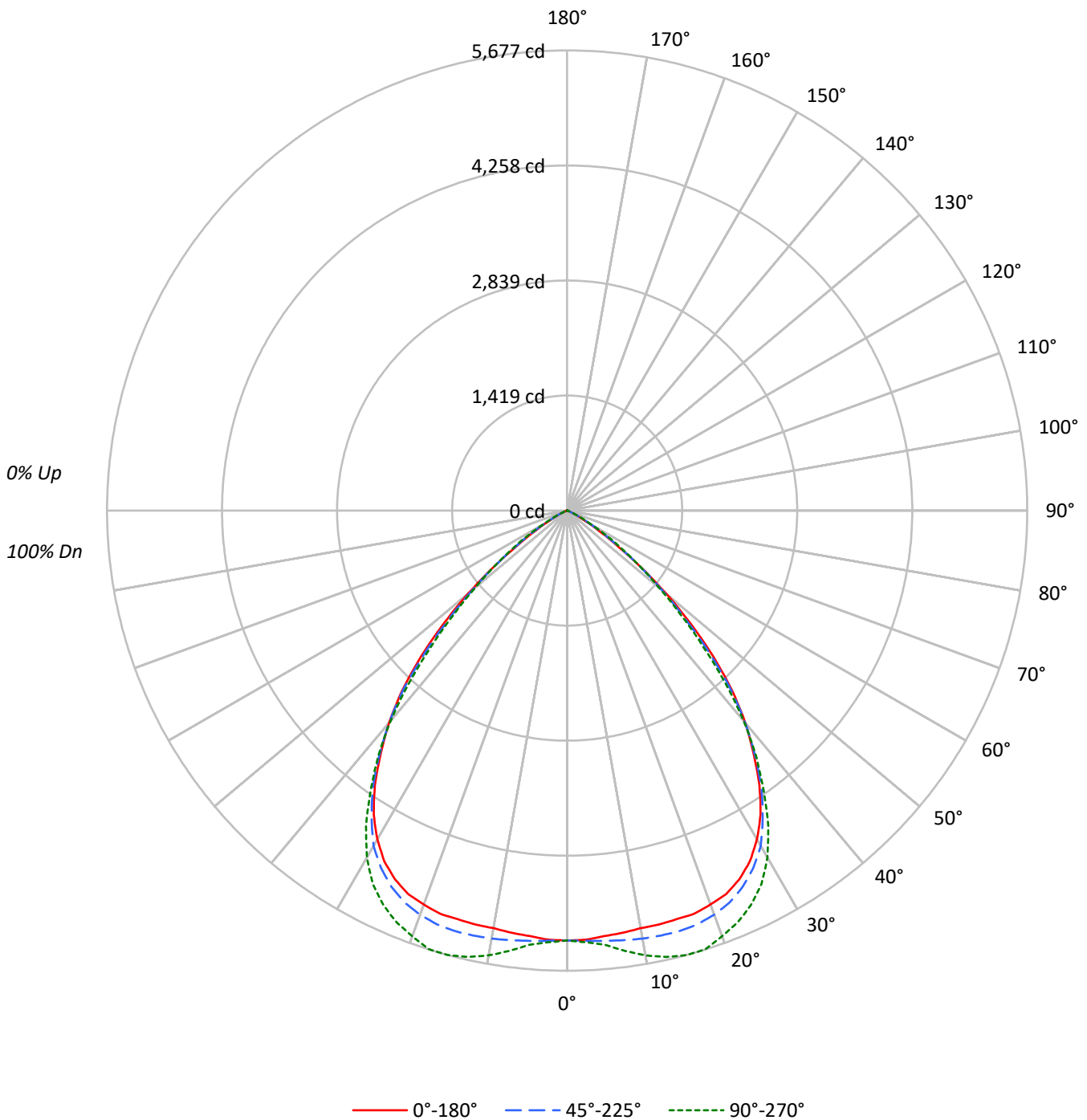
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	163562	163562	163562
5°	163128	164927	166471
10°	163777	167908	174477
15°	166615	171423	181236
20°	169698	174095	183365
25°	170825	174288	182628
30°	166789	170118	175886
35°	155689	157292	159167
40°	137677	137552	136505
45°	111330	108159	103406
50°	76483	73542	71153
55°	39364	41880	44837
60°	16399	19408	21777
65°	6363	6742	7960
70°	1686	1596	2155
75°	739	1358	1239
80°	1101	1296	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	510.4	5.2
10°-20°	1528.1	15.6
20°-30°	2364.6	24.2
30°-40°	2590.0	26.5
40°-50°	1894.8	19.4
50°-60°	743.5	7.6
60°-70°	120.4	1.2
70°-80°	11.1	0.1
80°-90°	2.2	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°	4403.1	45.1
0°-40°	6993.1	71.6
0°-60°	9631.4	98.6
0°-90°	9765.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9765.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5304	5304	5304	5304	5304	
5°	5270	5282	5328	5367	5378	502
15°	5219	5253	5370	5569	5677	1478
25°	5021	5036	5122	5277	5368	2302
35°	4136	4143	4178	4218	4228	2561
45°	2553	2549	2480	2404	2371	1944
55°	732	748	779	807	834	720
65°	87	85	92	102	109	106
75°	6	9	11	8	10	11
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°	5304.2	5304.2	5304.2	5304.2	5304.2
2.5°	5299.0	5302.2	5312.6	5322.9	5329.2
5°	5270.0	5282.4	5328.1	5366.6	5378.0
7.5°	5252.3	5273.1	5344.7	5441.3	5478.7
10°	5230.5	5260.6	5362.4	5499.5	5572.2
12.5°	5231.5	5260.6	5368.6	5547.3	5640.8
15°	5219.1	5253.4	5369.7	5569.1	5677.1
17.5°	5216.0	5232.6	5351.0	5553.5	5673.0
20°	5171.3	5194.1	5305.3	5485.0	5587.8
22.5°	5122.5	5132.9	5234.7	5411.2	5498.5
25°	5020.7	5036.3	5122.5	5277.2	5367.6
27.5°	4880.5	4883.6	4970.8	5114.2	5193.1
30°	4684.2	4699.8	4777.7	4883.6	4939.7
32.5°	4441.1	4439.1	4490.0	4582.4	4618.8
35°	4135.8	4143.1	4178.4	4217.8	4228.2
37.5°	3777.5	3786.8	3810.7	3824.2	3833.6
40°	3420.2	3420.2	3417.1	3402.5	3391.1
42.5°	3013.0	2999.5	2984.0	2919.6	2891.5
45°	2552.9	2548.8	2480.2	2404.4	2371.2
47.5°	2068.9	2046.1	1974.4	1913.1	1899.6
50°	1594.3	1570.4	1533.0	1502.9	1483.2
52.5°	1136.3	1118.6	1134.2	1134.2	1132.1
55°	732.2	747.8	779.0	807.0	834.0
57.5°	464.3	485.0	532.8	569.2	578.5
60°	265.9	281.5	314.7	346.9	353.1
62.5°	167.2	168.3	190.1	208.8	220.2
65°	87.2	85.2	92.4	101.8	109.1
67.5°	36.4	36.4	43.6	42.6	54.0
70°	18.7	15.6	17.7	20.8	23.9
72.5°	13.5	10.4	14.5	18.7	8.3
75°	6.2	9.3	11.4	8.3	10.4
77.5°	8.3	8.3	6.2	10.4	2.1
80°	6.2	4.2	7.3	3.1	0.0
82.5°	1.0	2.1	1.0	1.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	7.3	3.1	5.2	4.2	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)