

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: P247111

Luminaire Tested: **LSR8B90D010 EC8B90850 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247111  
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 EC8B90850 8LBS0LI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10726.0 lumens  
Efficiency: N/A  
Efficacy: 124.6 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

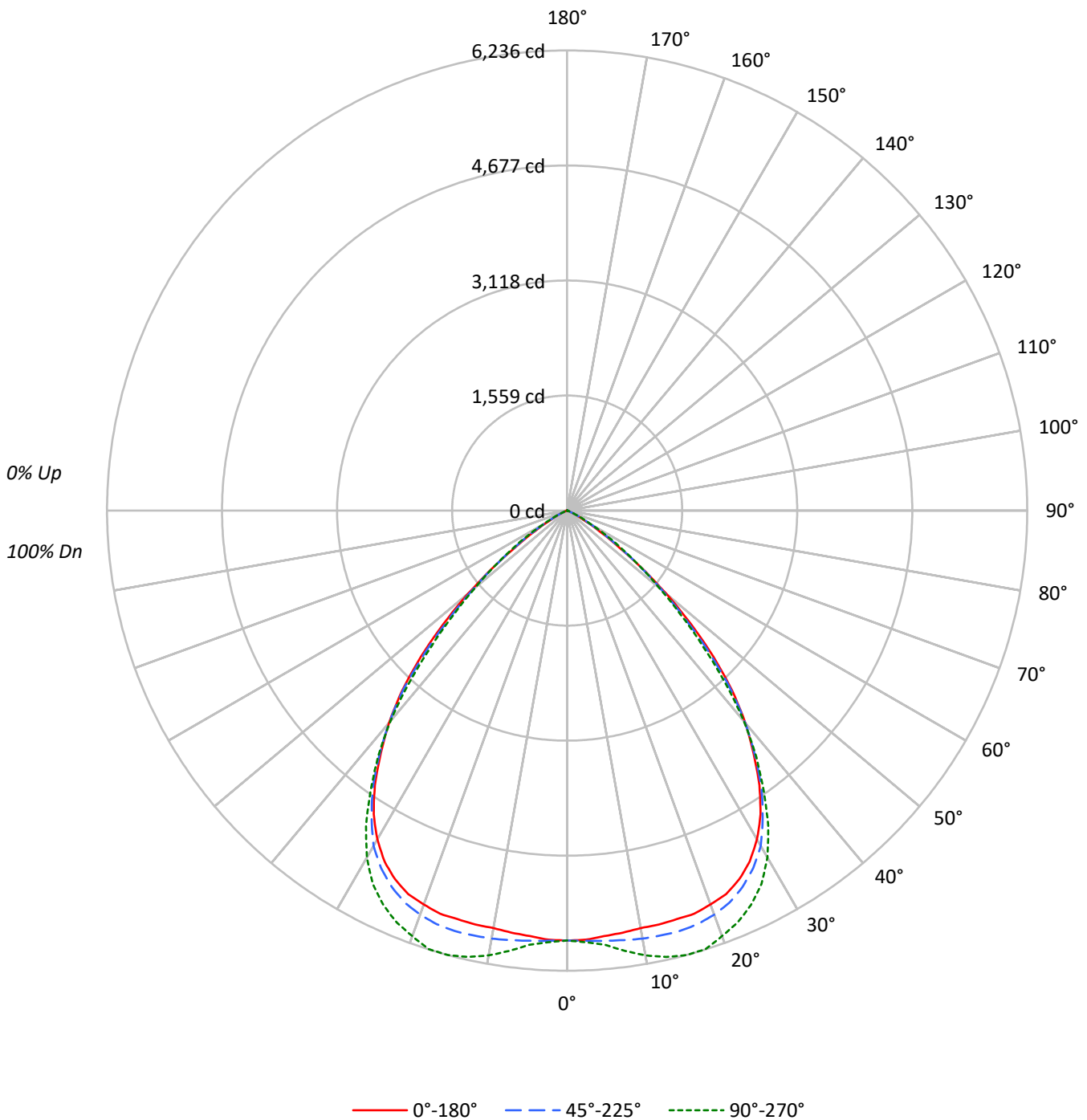
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	179659	179659	179659
5°	179181	181159	182852
10°	179894	184431	191648
15°	183011	188292	199072
20°	186398	191228	201411
25°	187636	191440	200599
30°	183204	186857	193195
35°	171010	172772	174831
40°	151226	151085	149938
45°	122289	118804	113580
50°	84010	80781	78152
55°	43240	45998	49251
60°	18015	21320	23923
65°	6990	7406	8741
70°	1848	1749	2362
75°	810	1489	1358
80°	1208	1421	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	560.6	5.2
10°-20°	1678.5	15.6
20°-30°	2597.3	24.2
30°-40°	2844.8	26.5
40°-50°	2081.3	19.4
50°-60°	816.6	7.6
60°-70°	132.2	1.2
70°-80°	12.2	0.1
80°-90°	2.4	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°	4836.4	45.1
0°-40°	7681.3	71.6
0°-60°	10579.2	98.6
0°-90°	10726.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10726.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5826	5826	5826	5826	5826	
5°	5789	5802	5852	5895	5907	551
15°	5733	5770	5898	6117	6236	1624
25°	5515	5532	5627	5797	5896	2529
35°	4543	4551	4590	4633	4644	2813
45°	2804	2800	2724	2641	2604	2135
55°	804	821	856	886	916	791
65°	96	94	102	112	120	116
75°	7	10	12	9	11	12
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°	5826.2	5826.2	5826.2	5826.2	5826.2
2.5°	5820.5	5824.0	5835.4	5846.8	5853.6
5°	5788.6	5802.3	5852.5	5894.7	5907.2
7.5°	5769.2	5792.0	5870.7	5976.8	6017.9
10°	5745.2	5778.3	5890.1	6040.7	6120.6
12.5°	5746.4	5778.3	5897.0	6093.2	6195.9
15°	5732.7	5770.3	5898.1	6117.2	6235.8
17.5°	5729.3	5747.5	5877.6	6100.0	6231.2
20°	5680.2	5705.3	5827.4	6024.8	6137.7
22.5°	5626.6	5638.0	5749.8	5943.8	6039.6
25°	5514.8	5531.9	5626.6	5796.6	5895.8
27.5°	5360.8	5364.2	5460.0	5617.5	5704.2
30°	5145.2	5162.3	5247.8	5364.2	5425.8
32.5°	4878.2	4875.9	4931.8	5033.4	5073.3
35°	4542.8	4550.8	4589.6	4632.9	4644.3
37.5°	4149.2	4159.5	4185.7	4200.6	4210.8
40°	3756.8	3756.8	3753.3	3737.4	3724.8
42.5°	3309.6	3294.7	3277.6	3206.9	3176.1
45°	2804.2	2799.6	2724.3	2641.0	2604.5
47.5°	2272.5	2247.4	2168.7	2101.4	2086.6
50°	1751.2	1724.9	1683.9	1650.8	1629.1
52.5°	1248.1	1228.7	1245.8	1245.8	1243.5
55°	804.3	821.4	855.6	886.4	916.1
57.5°	510.0	532.8	585.2	625.2	635.4
60°	292.1	309.2	345.7	381.0	387.9
62.5°	183.7	184.8	208.8	229.3	241.9
65°	95.8	93.5	101.5	111.8	119.8
67.5°	39.9	39.9	47.9	46.8	59.3
70°	20.5	17.1	19.4	22.8	26.2
72.5°	14.8	11.4	16.0	20.5	9.1
75°	6.8	10.3	12.5	9.1	11.4
77.5°	9.1	9.1	6.8	11.4	2.3
80°	6.8	4.6	8.0	3.4	0.0
82.5°	1.1	2.3	1.1	1.1	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	8.0	3.4	5.7	4.6	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)