

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: P247543

Luminaire Tested: **LSR8B90D010 EC8B90850 8LBSOGPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247543  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-86)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B90850 8LBS0GPH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9535.0 lumens  
Efficiency: N/A  
Efficacy: 110.7 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

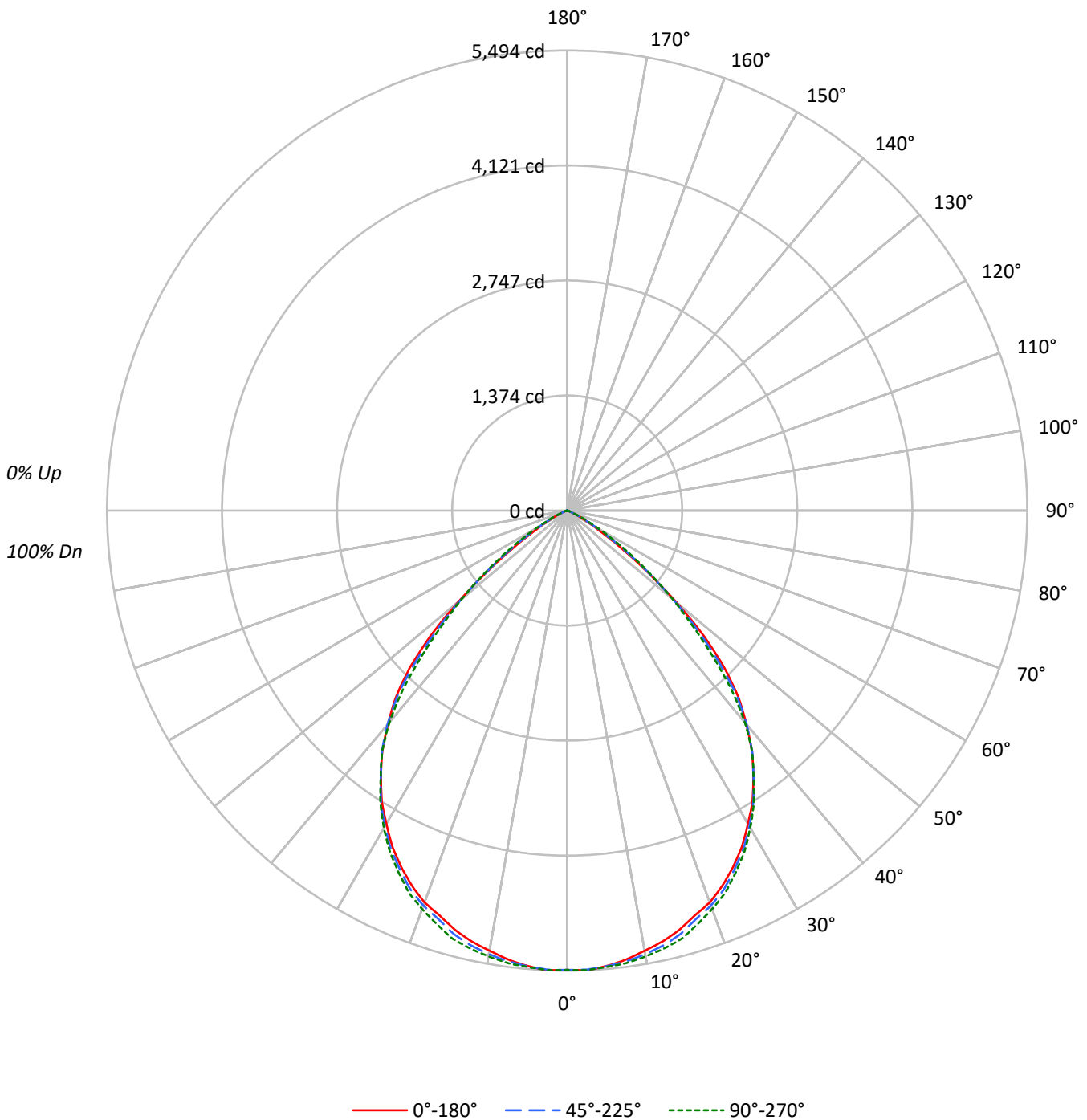
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P247543

CATALOG NUMBER: LSR8B90D010 EC8B90850 8LBS0GPH

### Luminous Intensity Polar Plot





TEST NUMBER: P247543

CATALOG NUMBER: LSR8B90D010 EC8B90850 8LBS0GPH

**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	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36					36			

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

	0°	45°	90°
0°	169146	169146	169146
5°	168944	169016	169263
10°	167112	168396	169254
15°	165389	167100	168920
20°	163378	164690	166111
25°	159614	160781	162101
30°	153757	154935	155747
35°	145890	146018	146063
40°	134054	134283	132906
45°	115974	111892	106917
50°	81328	79688	78647
55°	44160	47842	50971
60°	19489	23781	26951
65°	7493	9405	11237
70°	3805	3390	4427
75°	1227	2311	2037
80°	1012	195	1208
85°	0	0	0



TEST NUMBER: P247543

CATALOG NUMBER: LSR8B90D010 EC8B90850 8LBS0GPH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	518.9	5.4
10°-20°	1473.6	15.5
20°-30°	2173.1	22.8
30°-40°	2418.8	25.4
40°-50°	1946.6	20.4
50°-60°	827.8	8.7
60°-70°	155.2	1.6
70°-80°	18.8	0.2
80°-90°	2.3	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°	4165.5	43.7
0°-40°	6584.3	69.1
0°-60°	9358.7	98.2
0°-90°	9535.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9535.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5485	5485	5485	5485	5485	
5°	5458	5459	5460	5469	5468	517
15°	5181	5209	5234	5274	5291	1460
25°	4691	4708	4726	4753	4764	2156
35°	3876	3877	3879	3880	3880	2414
45°	2659	2638	2566	2488	2452	2000
55°	821	840	890	925	948	782
65°	103	114	129	138	154	133
75°	10	12	19	18	17	17
85°	0	0	0	0	0	2
90°	0	0	0	0	0	



TEST NUMBER: P247543

CATALOG NUMBER: LSR8B90D010 EC8B90850 8LBS0GPH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5485.3	5485.3	5485.3	5485.3	5485.3
2.5°	5494.4	5497.8	5486.4	5488.7	5492.1
5°	5457.9	5459.0	5460.2	5469.3	5468.2
7.5°	5406.6	5414.5	5428.2	5445.4	5449.9
10°	5337.0	5357.5	5378.0	5398.6	5405.4
12.5°	5268.5	5281.1	5317.6	5338.1	5355.2
15°	5180.7	5209.2	5234.3	5274.2	5291.3
17.5°	5068.9	5089.4	5113.4	5153.3	5177.2
20°	4978.7	4984.4	5018.7	5054.0	5062.0
22.5°	4845.3	4857.8	4893.2	4917.1	4937.7
25°	4691.2	4708.4	4725.5	4752.8	4764.3
27.5°	4522.4	4532.7	4556.6	4576.0	4586.3
30°	4318.2	4341.0	4351.3	4360.4	4374.1
32.5°	4119.7	4126.5	4135.6	4141.3	4148.2
35°	3875.5	3876.7	3878.9	3880.1	3880.1
37.5°	3625.7	3633.7	3631.4	3624.5	3628.0
40°	3330.2	3343.9	3335.9	3315.4	3301.7
42.5°	3032.4	3025.6	2998.2	2936.6	2908.1
45°	2659.4	2637.7	2565.8	2488.2	2451.7
47.5°	2212.1	2164.2	2103.8	2043.3	2019.3
50°	1695.3	1688.5	1661.1	1637.1	1639.4
52.5°	1215.0	1232.1	1237.8	1260.7	1272.1
55°	821.4	839.7	889.9	925.2	948.1
57.5°	499.7	535.1	588.7	646.9	676.5
60°	316.0	336.6	385.6	423.3	437.0
62.5°	197.4	198.5	222.5	252.1	264.7
65°	102.7	114.1	128.9	138.0	154.0
67.5°	63.9	63.9	62.7	76.4	85.6
70°	42.2	36.5	37.6	45.6	49.1
72.5°	14.8	25.1	22.8	22.8	16.0
75°	10.3	12.5	19.4	18.3	17.1
77.5°	13.7	12.5	9.1	8.0	16.0
80°	5.7	4.6	1.1	6.8	6.8
82.5°	5.7	2.3	6.8	9.1	5.7
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	1.1	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)