

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: P247347

Luminaire Tested: **LSR8B90D010 EC8B90840 8LBS0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247347  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-84)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B90840 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10032.0 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

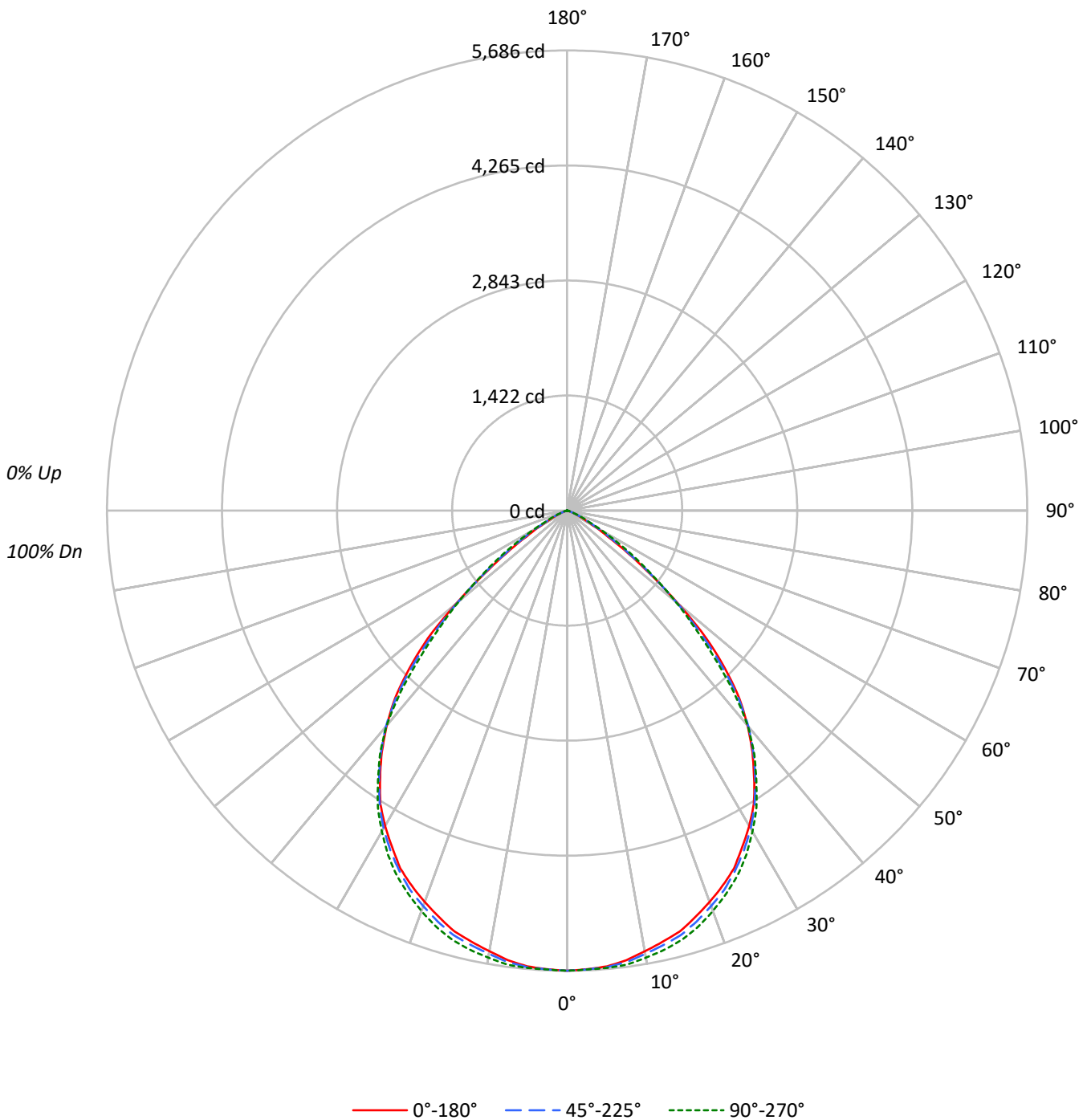
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P247347

CATALOG NUMBER: LSR8B90D010 EC8B90840 8LBS0WMH

### Luminous Intensity Polar Plot





TEST NUMBER: P247347

CATALOG NUMBER: LSR8B90D010 EC8B90840 8LBS0W/MH

**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	101	102	100	98	99	97	95	95	94	92	91					91			
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	81	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58					58			
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43					43			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39					39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36					36			

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

	0°	45°	90°
0°	175345	175345	175345
5°	174974	175253	175562
10°	173108	174126	175667
15°	171886	173386	175244
20°	168900	170663	172756
25°	165983	167052	169372
30°	160237	161516	163029
35°	151635	152561	153359
40°	139625	140301	139939
45°	120374	117204	112520
50°	85938	84648	83631
55°	49326	52272	56605
60°	23392	27395	31675
65°	11025	13309	15264
70°	5148	5752	6555
75°	2395	3467	4003
80°	1989	1794	2788
85°	778	1981	1203



TEST NUMBER: P247347

CATALOG NUMBER: LSR8B90D010 EC8B90840 8LBS0WMH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	537.3	5.4
10°-20°	1528.9	15.2
20°-30°	2258.6	22.5
30°-40°	2523.9	25.2
40°-50°	2037.6	20.3
50°-60°	906.3	9.0
60°-70°	204.2	2.0
70°-80°	31.5	0.3
80°-90°	3.7	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°	4324.8	43.1
0°-40°	6848.7	68.3
0°-60°	9792.6	97.6
0°-90°	10032.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10032.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5686	5686	5686	5686	5686	
5°	5653	5652	5662	5663	5672	536
15°	5384	5388	5431	5472	5489	1514
25°	4878	4878	4910	4950	4978	2237
35°	4028	4026	4053	4057	4074	2511
45°	2760	2739	2688	2592	2580	2087
55°	918	931	972	1023	1053	863
65°	151	170	182	198	209	176
75°	20	28	29	28	34	26
85°	2	3	6	12	3	2
90°	0	0	0	0	0	



TEST NUMBER: P247347

CATALOG NUMBER: LSR8B90D010 EC8B90840 8LBS0WMH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5686.3	5686.3	5686.3	5686.3	5686.3
2.5°	5671.7	5668.4	5674.0	5670.6	5676.2
5°	5652.7	5651.6	5661.7	5662.8	5671.7
7.5°	5603.5	5604.6	5625.9	5641.5	5659.4
10°	5528.5	5533.0	5561.0	5595.7	5610.2
12.5°	5456.9	5462.5	5498.3	5546.4	5557.6
15°	5384.2	5387.5	5431.2	5471.5	5489.4
17.5°	5265.6	5288.0	5321.5	5367.4	5390.9
20°	5147.0	5162.6	5200.7	5251.0	5264.5
22.5°	5017.2	5034.0	5072.0	5113.4	5128.0
25°	4878.4	4878.4	4909.8	4950.0	4978.0
27.5°	4684.9	4708.4	4730.7	4766.5	4794.5
30°	4500.2	4509.2	4536.1	4565.1	4578.6
32.5°	4295.5	4296.6	4308.9	4341.4	4353.7
35°	4028.1	4025.8	4052.7	4057.2	4073.9
37.5°	3760.6	3771.8	3781.9	3797.6	3798.7
40°	3468.6	3474.2	3485.4	3468.6	3476.4
42.5°	3150.8	3143.0	3121.8	3071.4	3050.1
45°	2760.3	2739.1	2687.6	2592.5	2580.2
47.5°	2329.6	2277.0	2214.3	2143.8	2130.4
50°	1791.4	1795.8	1764.5	1741.0	1743.3
52.5°	1305.8	1321.4	1329.3	1351.6	1363.9
55°	917.5	930.9	972.3	1022.7	1052.9
57.5°	594.1	619.9	673.6	730.6	751.9
60°	379.3	396.1	444.2	485.6	513.6
62.5°	248.4	254.0	280.8	318.9	320.0
65°	151.1	170.1	182.4	198.0	209.2
67.5°	98.5	98.5	109.7	124.2	127.6
70°	57.1	58.2	63.8	69.4	72.7
72.5°	31.3	34.7	38.0	43.6	49.2
75°	20.1	28.0	29.1	28.0	33.6
77.5°	13.4	13.4	11.2	19.0	20.1
80°	11.2	7.8	10.1	14.5	15.7
82.5°	0.0	1.1	1.1	2.2	0.0
85°	2.2	3.4	5.6	12.3	3.4
87.5°	0.0	3.4	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)