

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: P247363

Luminaire Tested: **LSR8B90D010 EC8B90935 8LBS0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247363  
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 EC8B90935 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8612.0 lumens  
Efficiency: N/A  
Efficacy: 100.0 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

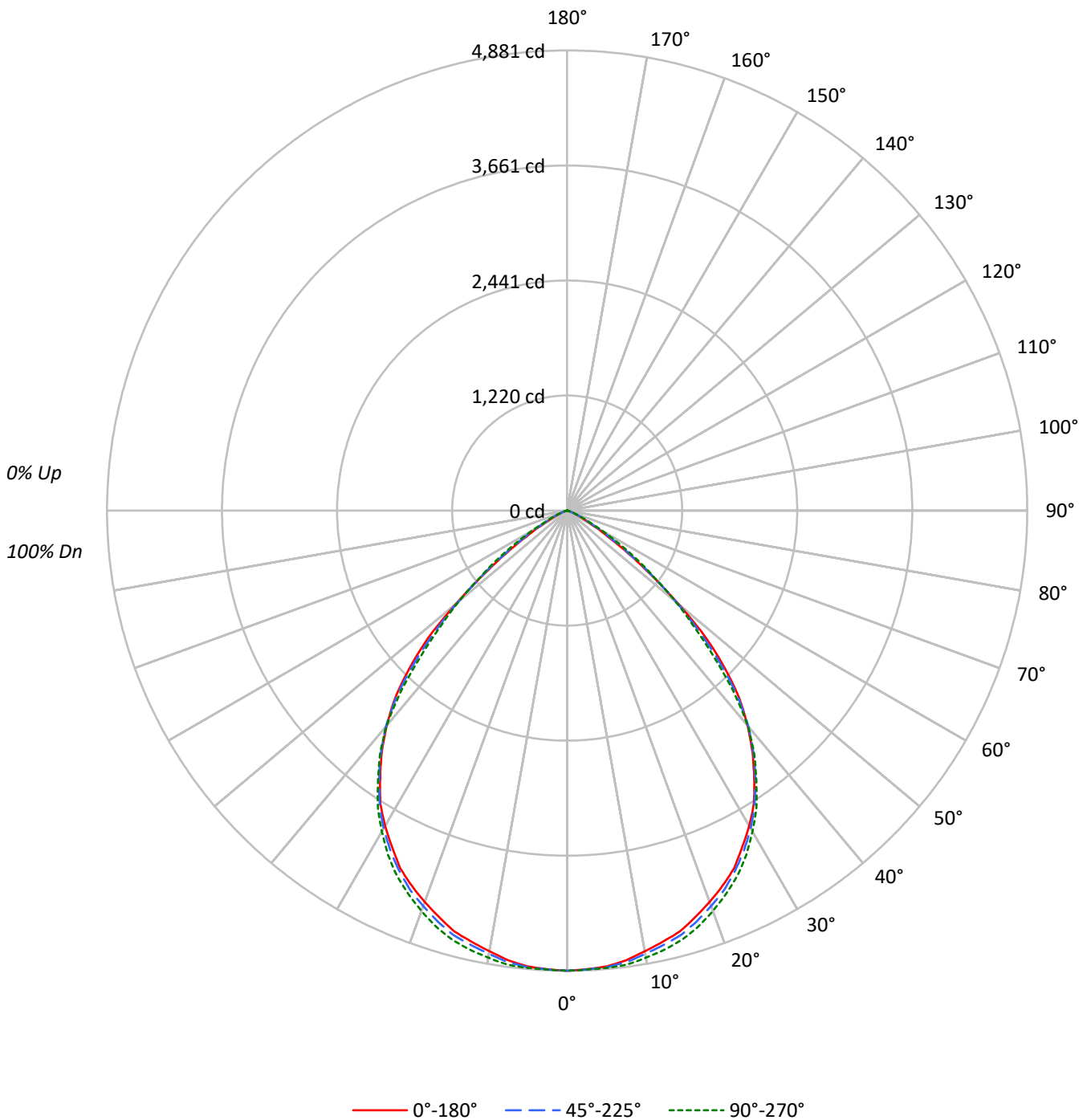
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	150524	150524	150524
5°	150208	150446	150712
10°	148607	149477	150802
15°	147556	148843	150439
20°	144991	146504	148302
25°	142490	143405	145399
30°	137559	138653	139952
35°	130170	130964	131653
40°	119860	120444	120134
45°	103336	100615	96594
50°	73773	72669	71791
55°	42343	44875	48595
60°	20081	23516	27191
65°	9464	11426	13105
70°	4418	4941	5626
75°	2061	2979	3431
80°	1705	1527	2380
85°	672	1698	1026



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	461.2	5.4
10°-20°	1312.5	15.2
20°-30°	1938.9	22.5
30°-40°	2166.6	25.2
40°-50°	1749.2	20.3
50°-60°	778.0	9.0
60°-70°	175.2	2.0
70°-80°	27.1	0.3
80°-90°	3.2	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°	3712.6	43.1
0°-40°	5879.3	68.3
0°-60°	8406.5	97.6
0°-90°	8612.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8612.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4881	4881	4881	4881	4881	
5°	4853	4852	4860	4861	4869	460
15°	4622	4625	4662	4697	4712	1300
25°	4188	4188	4215	4249	4273	1920
35°	3458	3456	3479	3483	3497	2155
45°	2370	2351	2307	2226	2215	1792
55°	788	799	835	878	904	741
65°	130	146	157	170	180	151
75°	17	24	25	24	29	22
85°	2	3	5	11	3	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4881.4	4881.4	4881.4	4881.4	4881.4
2.5°	4868.9	4866.0	4870.8	4868.0	4872.8
5°	4852.6	4851.6	4860.3	4861.2	4868.9
7.5°	4810.3	4811.3	4829.5	4843.0	4858.4
10°	4746.0	4749.8	4773.8	4803.6	4816.1
12.5°	4684.5	4689.3	4720.0	4761.3	4771.0
15°	4622.1	4625.0	4662.4	4697.0	4712.4
17.5°	4520.3	4539.5	4568.3	4607.7	4627.8
20°	4418.4	4431.9	4464.5	4507.8	4519.3
22.5°	4307.0	4321.4	4354.1	4389.6	4402.1
25°	4187.9	4187.9	4214.8	4249.4	4273.4
27.5°	4021.7	4041.9	4061.1	4091.9	4115.9
30°	3863.3	3870.9	3894.0	3919.0	3930.5
32.5°	3687.5	3688.4	3699.0	3726.9	3737.4
35°	3457.9	3456.0	3479.0	3482.9	3497.3
37.5°	3228.3	3237.9	3246.6	3260.0	3261.0
40°	2977.6	2982.4	2992.1	2977.6	2984.4
42.5°	2704.9	2698.1	2679.9	2636.7	2618.4
45°	2369.6	2351.4	2307.2	2225.5	2215.0
47.5°	1999.8	1954.7	1900.9	1840.4	1828.8
50°	1537.8	1541.7	1514.8	1494.6	1496.5
52.5°	1120.9	1134.4	1141.1	1160.3	1170.9
55°	787.6	799.2	834.7	877.9	903.9
57.5°	510.0	532.1	578.2	627.2	645.5
60°	325.6	340.0	381.3	416.9	440.9
62.5°	213.2	218.0	241.1	273.8	274.7
65°	129.7	146.0	156.6	170.0	179.6
67.5°	84.5	84.5	94.1	106.6	109.5
70°	49.0	49.9	54.8	59.6	62.4
72.5°	26.9	29.8	32.7	37.5	42.3
75°	17.3	24.0	25.0	24.0	28.8
77.5°	11.5	11.5	9.6	16.3	17.3
80°	9.6	6.7	8.6	12.5	13.4
82.5°	0.0	1.0	1.0	1.9	0.0
85°	1.9	2.9	4.8	10.6	2.9
87.5°	0.0	2.9	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)