

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: P247227

Luminaire Tested: **LD8B90D010 ER8B90950 8LBS0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247227  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-83)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B90D010 ER8B90950 8LBS0H  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9512.0 lumens  
Efficiency: N/A  
Efficacy: 110.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

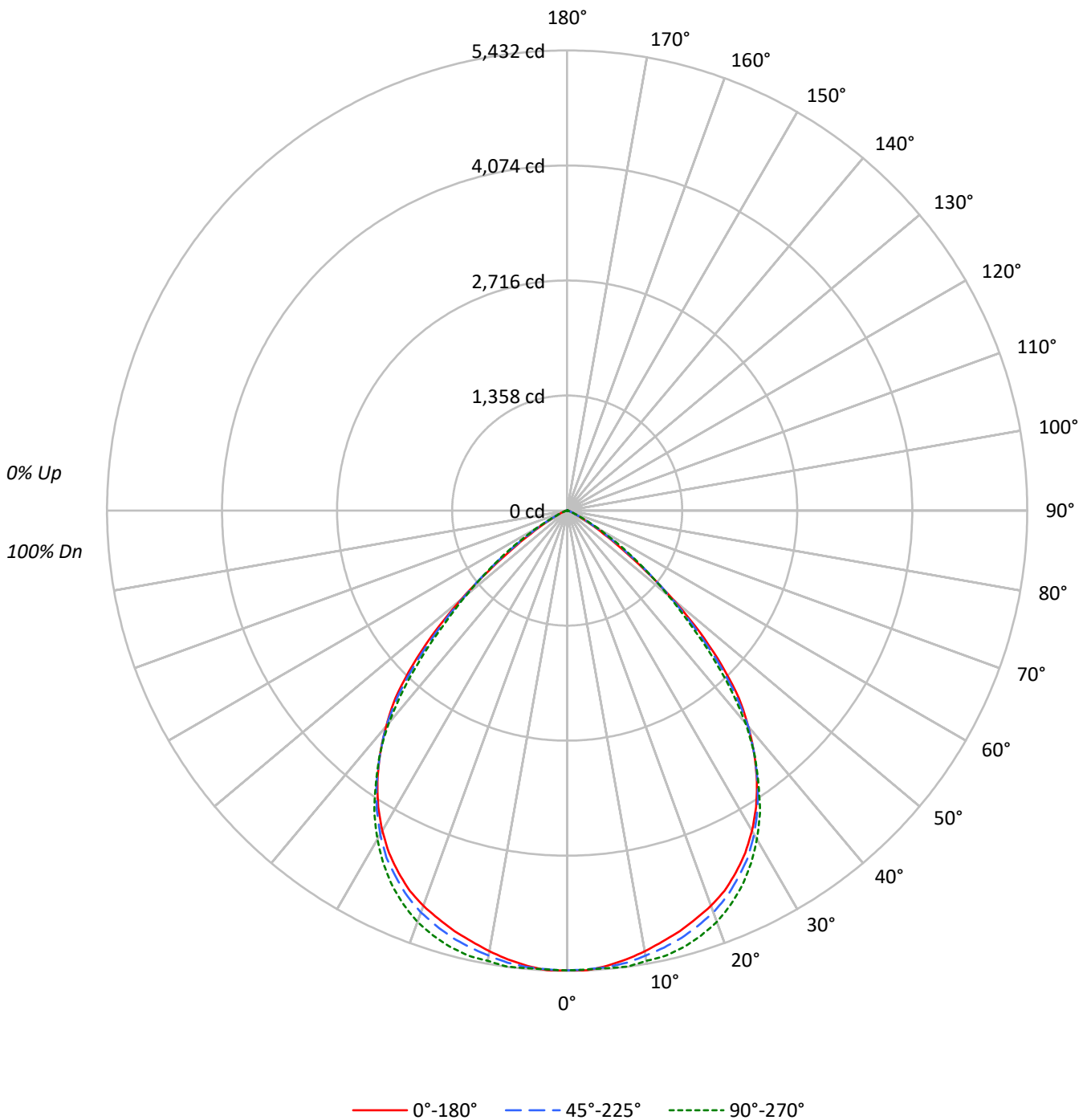
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58				58
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53				53
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48				48
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43				43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40				40
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36				36

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

	0°	45°	90°
0°	167389	167389	167389
5°	166966	167449	167802
10°	165384	167043	168994
15°	164074	166663	170242
20°	162928	165622	169609
25°	160379	162605	166211
30°	155413	157111	159518
35°	146982	147648	148194
40°	133881	133756	131960
45°	112564	109167	104457
50°	78181	76440	74396
55°	41826	46240	48971
60°	20241	22998	25946
65°	8865	8946	9325
70°	4778	4400	4310
75°	4206	3836	2728
80°	178	746	0
85°	354	354	1840



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	514.2	5.4
10°-20°	1474.7	15.5
20°-30°	2200.3	23.1
30°-40°	2436.9	25.6
40°-50°	1900.4	20.0
50°-60°	796.6	8.4
60°-70°	159.6	1.7
70°-80°	25.4	0.3
80°-90°	4.0	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°	4189.2	44.0
0°-40°	6626.1	69.7
0°-60°	9323.1	98.0
0°-90°	9512.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9512.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5428	5428	5428	5428	5428	
5°	5394	5398	5410	5424	5421	511
15°	5140	5162	5221	5297	5333	1450
25°	4714	4732	4779	4853	4885	2166
35°	3904	3898	3922	3941	3937	2427
45°	2581	2570	2503	2426	2395	1953
55°	778	808	860	894	911	758
65°	122	122	123	132	128	147
75°	35	32	32	25	23	29
85°	1	2	1	0	5	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5428.3	5428.3	5428.3	5428.3	5428.3
2.5°	5432.5	5422.1	5420.0	5426.2	5422.1
5°	5394.0	5398.2	5409.6	5424.1	5421.0
7.5°	5344.2	5351.4	5382.6	5420.0	5429.3
10°	5281.8	5297.4	5334.8	5377.4	5397.1
12.5°	5209.1	5229.9	5283.9	5345.2	5381.6
15°	5139.5	5162.4	5220.6	5297.4	5332.7
17.5°	5052.3	5082.4	5139.5	5222.6	5259.0
20°	4965.0	4992.0	5047.1	5128.1	5168.6
22.5°	4857.0	4876.7	4928.7	4997.2	5038.8
25°	4713.7	4732.4	4779.1	4852.9	4885.1
27.5°	4553.7	4575.5	4618.1	4669.0	4698.1
30°	4364.7	4382.3	4412.4	4458.1	4480.0
32.5°	4151.7	4152.8	4182.9	4217.2	4236.9
35°	3904.5	3898.3	3922.2	3940.9	3936.7
37.5°	3631.3	3632.4	3630.3	3632.4	3636.5
40°	3325.9	3311.4	3322.8	3296.9	3278.2
42.5°	3001.9	2987.3	2942.7	2885.5	2854.4
45°	2581.2	2569.8	2503.3	2426.4	2395.3
47.5°	2119.0	2083.7	2029.6	1964.2	1934.1
50°	1629.7	1625.6	1593.4	1577.8	1550.8
52.5°	1165.4	1165.4	1204.9	1198.7	1197.6
55°	778.0	808.1	860.1	894.3	910.9
57.5°	506.9	534.9	578.6	614.9	631.5
60°	328.2	341.7	372.9	400.9	420.7
62.5°	203.6	215.0	231.6	249.3	256.6
65°	121.5	121.5	122.6	131.9	127.8
67.5°	82.1	85.2	81.0	81.0	91.4
70°	53.0	49.9	48.8	47.8	47.8
72.5°	34.3	29.1	31.2	33.2	29.1
75°	35.3	32.2	32.2	24.9	22.9
77.5°	12.5	13.5	9.3	7.3	6.2
80°	1.0	4.2	4.2	1.0	0.0
82.5°	12.5	11.4	9.3	14.5	9.3
85°	1.0	2.1	1.0	0.0	5.2
87.5°	0.0	0.0	0.0	1.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)