

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: P247351

Luminaire Tested: **LD8B90D010 ER8B90850 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247351
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: LD8B90D010 ER8B90850 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10229.0 lumens
Efficiency: N/A
Efficacy: 118.8 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

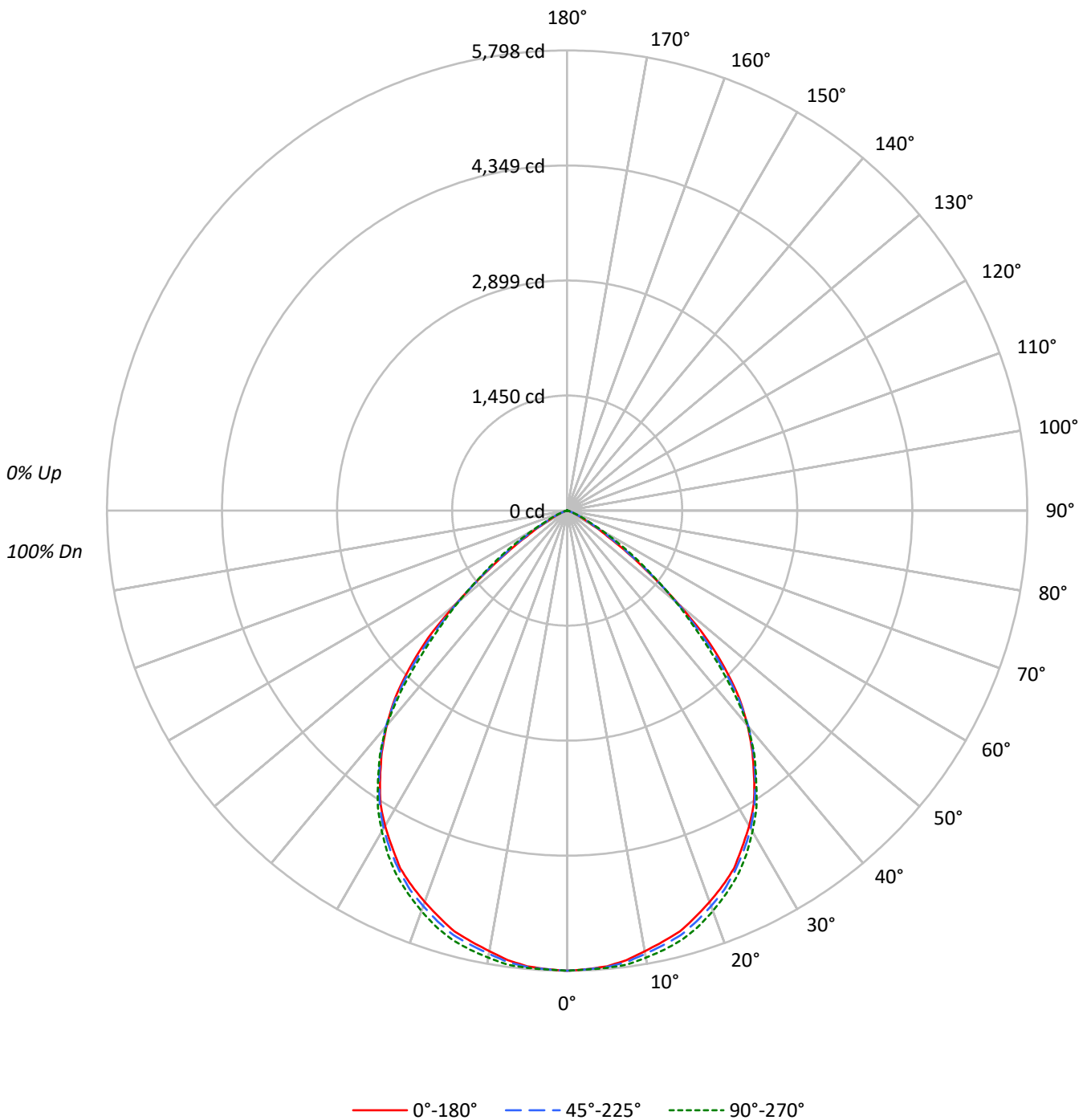
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	178789	178789	178789
5°	178410	178695	179011
10°	176509	177545	179117
15°	175260	176789	178686
20°	172215	174013	176146
25°	169243	170331	172700
30°	163385	164685	166230
35°	154612	155557	156370
40°	142366	143054	142688
45°	122742	119506	114731
50°	87622	86313	85272
55°	50294	53299	57718
60°	23855	27932	32298
65°	11237	13571	15563
70°	5247	5860	6690
75°	2442	3539	4075
80°	2024	1829	2841
85°	814	2017	1203



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.8	5.4
10°-20°	1558.9	15.2
20°-30°	2303.0	22.5
30°-40°	2573.4	25.2
40°-50°	2077.6	20.3
50°-60°	924.1	9.0
60°-70°	208.2	2.0
70°-80°	32.2	0.3
80°-90°	3.8	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°	4409.7	43.1
0°-40°	6983.1	68.3
0°-60°	9984.9	97.6
0°-90°	10229.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10229.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5798	5798	5798	5798	5798	
5°	5764	5763	5773	5774	5783	546
15°	5490	5493	5538	5579	5597	1544
25°	4974	4974	5006	5047	5076	2280
35°	4107	4105	4132	4137	4154	2560
45°	2815	2793	2740	2643	2631	2128
55°	936	949	991	1043	1074	880
65°	154	173	186	202	213	179
75°	20	28	30	28	34	27
85°	2	3	6	12	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5798.0	5798.0	5798.0	5798.0	5798.0
2.5°	5783.1	5779.7	5785.4	5782.0	5787.7
5°	5763.7	5762.6	5772.9	5774.0	5783.1
7.5°	5713.5	5714.7	5736.3	5752.3	5770.6
10°	5637.1	5641.7	5670.2	5705.5	5720.4
12.5°	5564.1	5569.8	5606.3	5655.3	5666.8
15°	5489.9	5493.3	5537.8	5578.9	5597.2
17.5°	5369.0	5391.8	5426.0	5472.8	5496.8
20°	5248.0	5264.0	5302.8	5354.1	5367.8
22.5°	5115.7	5132.8	5171.6	5213.8	5228.7
25°	4974.2	4974.2	5006.2	5047.3	5075.8
27.5°	4776.9	4800.8	4823.6	4860.1	4888.7
30°	4588.6	4597.7	4625.1	4654.8	4668.5
32.5°	4379.8	4381.0	4393.5	4426.6	4439.2
35°	4107.2	4104.9	4132.3	4136.8	4153.9
37.5°	3834.5	3845.9	3856.2	3872.1	3873.3
40°	3536.7	3542.4	3553.8	3536.7	3544.7
42.5°	3212.7	3204.7	3183.1	3131.7	3110.0
45°	2814.6	2792.9	2740.4	2643.4	2630.9
47.5°	2375.3	2321.7	2257.8	2185.9	2172.2
50°	1826.5	1831.1	1799.2	1775.2	1777.5
52.5°	1331.4	1347.4	1355.4	1378.2	1390.7
55°	935.5	949.2	991.4	1042.8	1073.6
57.5°	605.8	632.0	686.8	745.0	766.7
60°	386.8	403.9	452.9	495.1	523.7
62.5°	253.3	259.0	286.4	325.2	326.3
65°	154.0	173.4	186.0	201.9	213.3
67.5°	100.4	100.4	111.8	126.6	130.1
70°	58.2	59.3	65.0	70.7	74.2
72.5°	31.9	35.4	38.8	44.5	50.2
75°	20.5	28.5	29.7	28.5	34.2
77.5°	13.7	13.7	11.4	19.4	20.5
80°	11.4	8.0	10.3	14.8	16.0
82.5°	0.0	1.1	1.1	2.3	0.0
85°	2.3	3.4	5.7	12.5	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)