

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: P247334

Luminaire Tested: **LD8B80D010 ER8B80827 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247334
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: LD8B80D010 ER8B80827 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8411.0 lumens
Efficiency: N/A
Efficacy: 113.1 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

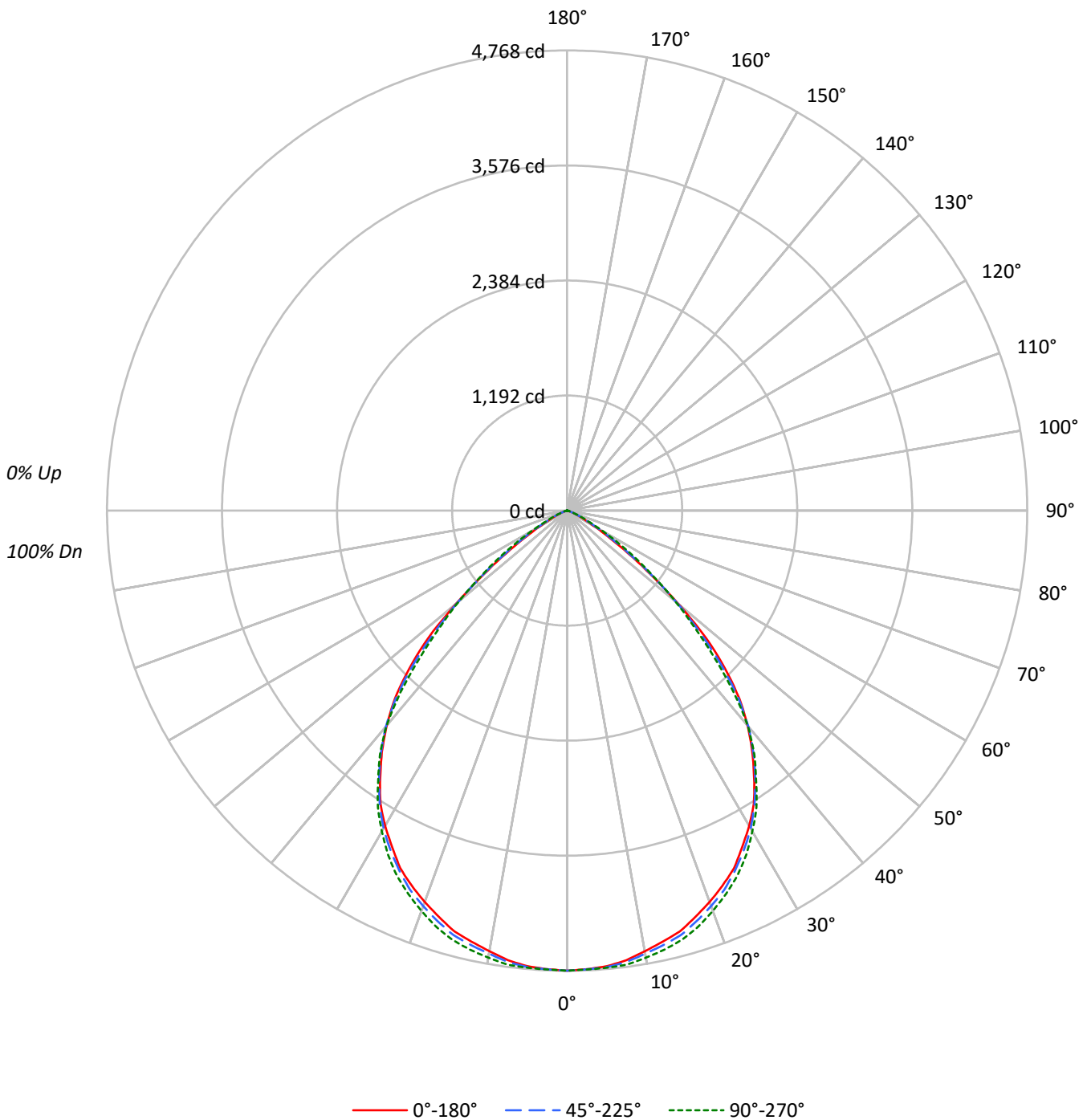
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	147012	147012	147012
5°	146701	146933	147196
10°	145137	145989	147282
15°	144112	145370	146927
20°	141608	143085	144840
25°	139165	140057	142006
30°	134348	135416	136687
35°	127132	127907	128581
40°	117063	117630	117328
45°	100925	98264	94340
50°	72050	70971	70117
55°	41359	43826	47461
60°	19612	22967	26556
65°	9237	11156	12798
70°	4310	4824	5500
75°	2014	2907	3348
80°	1669	1492	2326
85°	672	1663	991



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.5	5.4
10°-20°	1281.8	15.2
20°-30°	1893.7	22.5
30°-40°	2116.1	25.2
40°-50°	1708.3	20.3
50°-60°	759.9	9.0
60°-70°	171.2	2.0
70°-80°	26.5	0.3
80°-90°	3.1	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°	3626.0	43.1
0°-40°	5742.0	68.3
0°-60°	8210.3	97.6
0°-90°	8411.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8411.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4768	4768	4768	4768	4768	
5°	4739	4738	4747	4748	4755	449
15°	4514	4517	4554	4587	4602	1270
25°	4090	4090	4116	4150	4174	1875
35°	3377	3375	3398	3402	3416	2105
45°	2314	2296	2253	2174	2163	1750
55°	769	780	815	857	883	724
65°	127	143	153	166	175	147
75°	17	24	24	24	28	22
85°	2	3	5	10	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4767.5	4767.5	4767.5	4767.5	4767.5
2.5°	4755.3	4752.5	4757.2	4754.3	4759.0
5°	4739.3	4738.4	4746.8	4747.8	4755.3
7.5°	4698.1	4699.0	4716.8	4730.0	4745.0
10°	4635.2	4639.0	4662.4	4691.5	4703.7
12.5°	4575.2	4579.9	4609.9	4650.2	4659.6
15°	4514.2	4517.0	4553.6	4587.4	4602.4
17.5°	4414.8	4433.5	4461.7	4500.1	4519.8
20°	4315.3	4328.4	4360.3	4402.6	4413.8
22.5°	4206.5	4220.6	4252.5	4287.2	4299.4
25°	4090.2	4090.2	4116.4	4150.2	4173.7
27.5°	3927.9	3947.6	3966.3	3996.4	4019.8
30°	3773.1	3780.6	3803.1	3827.5	3838.8
32.5°	3601.4	3602.3	3612.7	3639.9	3650.2
35°	3377.2	3375.3	3397.8	3401.6	3415.7
37.5°	3153.0	3162.4	3170.8	3184.0	3184.9
40°	2908.1	2912.8	2922.2	2908.1	2914.7
42.5°	2641.7	2635.2	2617.3	2575.1	2557.3
45°	2314.3	2296.5	2253.3	2173.6	2163.3
47.5°	1953.1	1909.1	1856.5	1797.4	1786.2
50°	1501.9	1505.7	1479.4	1459.7	1461.6
52.5°	1094.8	1107.9	1114.5	1133.2	1143.6
55°	769.3	780.5	815.2	857.4	882.8
57.5°	498.1	519.7	564.7	612.6	630.4
60°	318.0	332.1	372.4	407.1	430.6
62.5°	208.3	213.0	235.5	267.4	268.3
65°	126.6	142.6	152.9	166.0	175.4
67.5°	82.6	82.6	91.9	104.1	106.9
70°	47.8	48.8	53.5	58.2	61.0
72.5°	26.3	29.1	31.9	36.6	41.3
75°	16.9	23.5	24.4	23.5	28.1
77.5°	11.3	11.3	9.4	15.9	16.9
80°	9.4	6.6	8.4	12.2	13.1
82.5°	0.0	0.9	0.9	1.9	0.0
85°	1.9	2.8	4.7	10.3	2.8
87.5°	0.0	2.8	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)