

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: P247346

Luminaire Tested: **LD8B80D010 ER8B80840 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247346
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 ER8B80840 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8907.0 lumens
Efficiency: N/A
Efficacy: 119.7 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

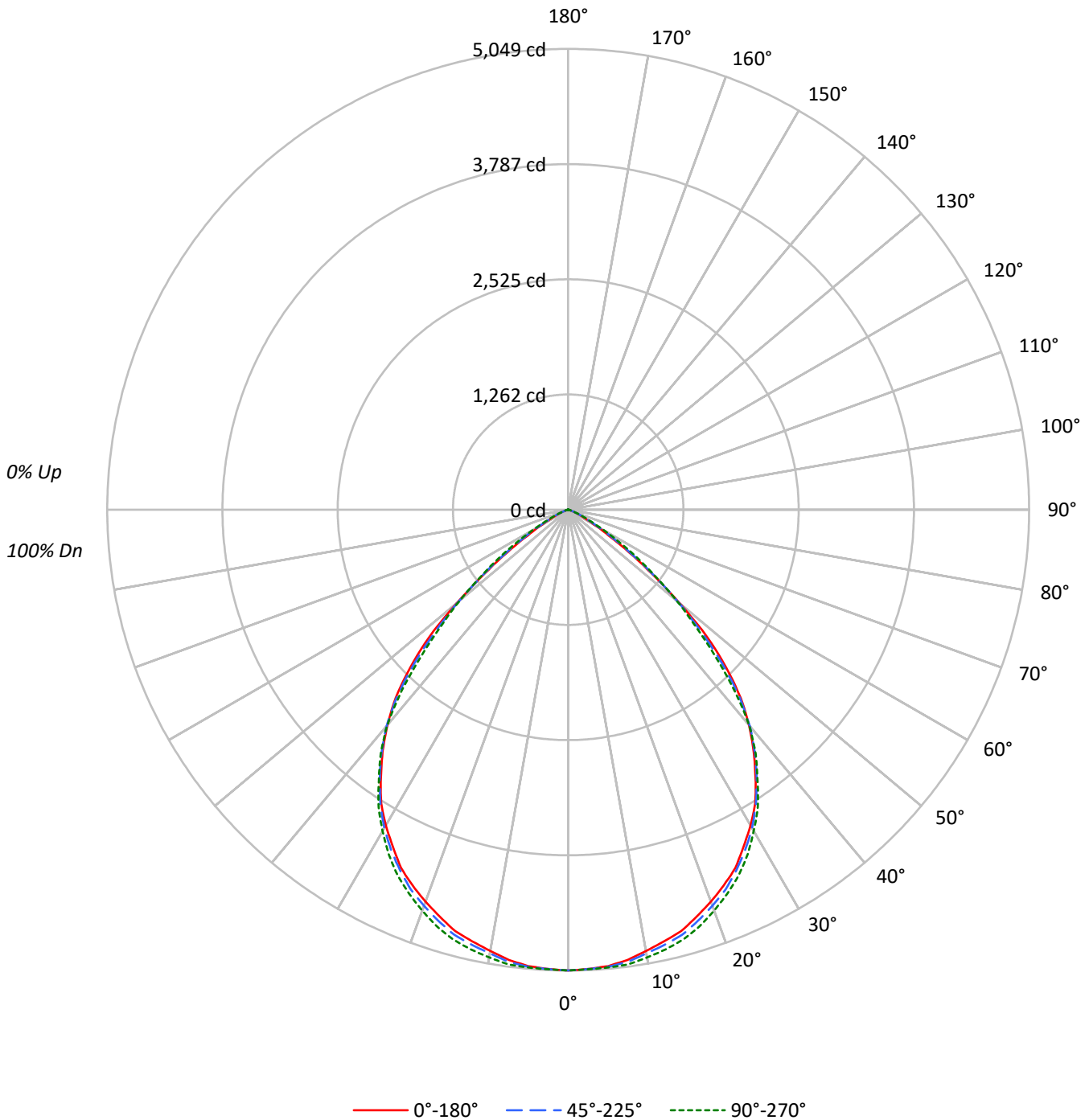
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	155680	155680	155680
5°	155352	155600	155876
10°	153695	154600	155968
15°	152610	153941	155592
20°	149959	151525	153382
25°	147372	148318	150380
30°	142270	143402	144745
35°	134631	135451	136163
40°	123966	124566	124248
45°	106877	104060	99904
50°	76301	75154	74252
55°	43794	46412	50256
60°	20771	24324	28123
65°	9785	11813	13557
70°	4571	5103	5824
75°	2133	3074	3550
80°	1758	1580	2468
85°	708	1769	1061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.0	5.4
10°-20°	1357.4	15.2
20°-30°	2005.4	22.5
30°-40°	2240.9	25.2
40°-50°	1809.1	20.3
50°-60°	804.7	9.0
60°-70°	181.3	2.0
70°-80°	28.0	0.3
80°-90°	3.3	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°	3839.8	43.1
0°-40°	6080.7	68.3
0°-60°	8694.4	97.6
0°-90°	8907.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8907.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5049	5049	5049	5049	5049	
5°	5019	5018	5027	5028	5036	476
15°	4780	4783	4822	4858	4874	1344
25°	4331	4331	4359	4395	4420	1986
35°	3576	3574	3598	3602	3617	2229
45°	2451	2432	2386	2302	2291	1853
55°	815	826	863	908	935	766
65°	134	151	162	176	186	156
75°	18	25	26	25	30	23
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°	5048.6	5048.6	5048.6	5048.6	5048.6
2.5°	5035.7	5032.7	5037.7	5034.7	5039.7
5°	5018.8	5017.8	5026.8	5027.8	5035.7
7.5°	4975.1	4976.1	4995.0	5008.9	5024.8
10°	4908.5	4912.5	4937.4	4968.2	4981.1
12.5°	4845.0	4849.9	4881.7	4924.4	4934.4
15°	4780.4	4783.4	4822.1	4857.9	4873.8
17.5°	4675.1	4695.0	4724.8	4765.5	4786.4
20°	4569.8	4583.7	4617.5	4662.2	4674.1
22.5°	4454.6	4469.5	4503.2	4540.0	4552.9
25°	4331.4	4331.4	4359.2	4394.9	4419.8
27.5°	4159.5	4180.4	4200.2	4232.0	4256.9
30°	3995.6	4003.5	4027.4	4053.2	4065.1
32.5°	3813.8	3814.8	3825.7	3854.5	3865.4
35°	3576.4	3574.4	3598.2	3602.2	3617.1
37.5°	3338.9	3348.9	3357.8	3371.7	3372.7
40°	3079.6	3084.6	3094.5	3079.6	3086.6
42.5°	2797.5	2790.6	2771.7	2727.0	2708.1
45°	2450.8	2431.9	2386.2	2301.8	2290.9
47.5°	2068.3	2021.6	1966.0	1903.4	1891.5
50°	1590.5	1594.5	1566.6	1545.8	1547.8
52.5°	1159.3	1173.2	1180.2	1200.1	1211.0
55°	814.6	826.5	863.3	908.0	934.8
57.5°	527.5	550.4	598.0	648.7	667.6
60°	336.8	351.7	394.4	431.1	456.0
62.5°	220.5	225.5	249.4	283.1	284.1
65°	134.1	151.0	161.9	175.8	185.8
67.5°	87.4	87.4	97.4	110.3	113.3
70°	50.7	51.7	56.6	61.6	64.6
72.5°	27.8	30.8	33.8	38.7	43.7
75°	17.9	24.8	25.8	24.8	29.8
77.5°	11.9	11.9	9.9	16.9	17.9
80°	9.9	7.0	8.9	12.9	13.9
82.5°	0.0	1.0	1.0	2.0	0.0
85°	2.0	3.0	5.0	10.9	3.0
87.5°	0.0	3.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)