

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: P247343

Luminaire Tested: **LD8B90D010 ER8B90835 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247343
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 ER8B90835 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10098.0 lumens
Efficiency: N/A
Efficacy: 117.3 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

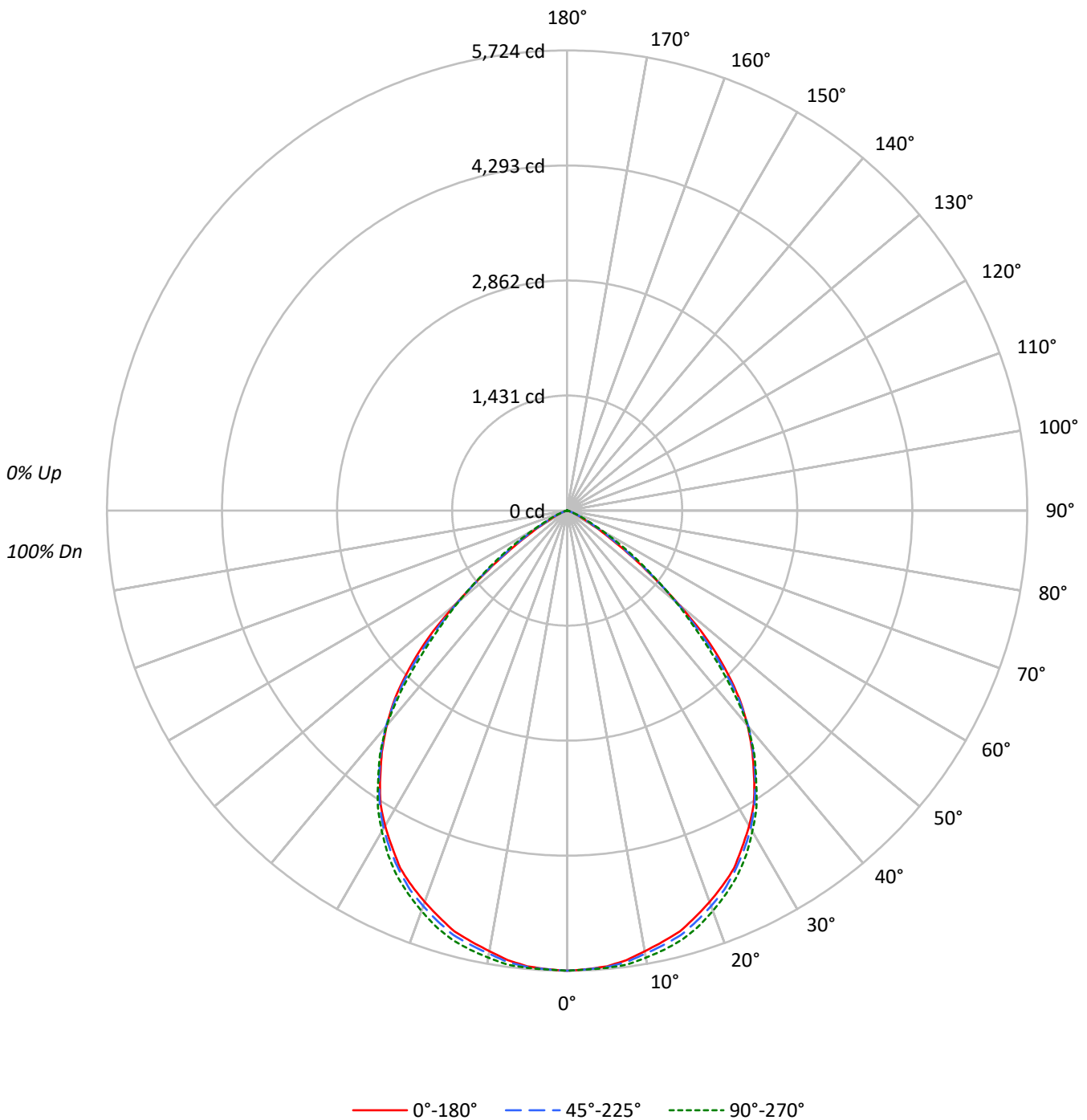
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	176498	176498	176498
5°	176126	176404	176720
10°	174248	175272	176822
15°	173016	174526	176397
20°	170010	171785	173892
25°	167075	168151	170488
30°	161295	162577	164101
35°	152632	153562	154368
40°	140543	141223	140861
45°	121168	117976	113262
50°	86505	85204	84178
55°	49649	52616	56976
60°	23547	27574	31885
65°	11091	13396	15366
70°	5175	5788	6600
75°	2419	3491	4027
80°	2007	1794	2806
85°	814	1981	1203



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.8	5.4
10°-20°	1538.9	15.2
20°-30°	2273.5	22.5
30°-40°	2540.5	25.2
40°-50°	2051.0	20.3
50°-60°	912.3	9.0
60°-70°	205.5	2.0
70°-80°	31.8	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°	4353.2	43.1
0°-40°	6893.7	68.3
0°-60°	9857.0	97.6
0°-90°	10098.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10098.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5724	5724	5724	5724	5724	
5°	5690	5689	5699	5700	5709	539
15°	5420	5423	5467	5508	5526	1524
25°	4910	4910	4942	4983	5011	2251
35°	4055	4052	4079	4084	4101	2527
45°	2778	2757	2705	2610	2597	2101
55°	924	937	979	1029	1060	869
65°	152	171	184	199	211	177
75°	20	28	29	28	34	26
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°	5723.7	5723.7	5723.7	5723.7	5723.7
2.5°	5709.1	5705.7	5711.3	5707.9	5713.6
5°	5689.9	5688.8	5698.9	5700.0	5709.1
7.5°	5640.4	5641.5	5662.9	5678.6	5696.7
10°	5564.9	5569.4	5597.6	5632.5	5647.1
12.5°	5492.8	5498.4	5534.5	5582.9	5594.2
15°	5419.6	5423.0	5466.9	5507.5	5525.5
17.5°	5300.2	5322.7	5356.5	5402.7	5426.4
20°	5180.8	5196.6	5234.9	5285.6	5299.1
22.5°	5050.2	5067.1	5105.4	5147.0	5161.7
25°	4910.5	4910.5	4942.1	4982.6	5010.8
27.5°	4715.7	4739.3	4761.9	4797.9	4826.1
30°	4529.9	4538.9	4565.9	4595.2	4608.7
32.5°	4323.7	4324.9	4337.3	4369.9	4382.3
35°	4054.6	4052.3	4079.3	4083.9	4100.7
37.5°	3785.4	3796.7	3806.8	3822.6	3823.7
40°	3491.4	3497.1	3508.3	3491.4	3499.3
42.5°	3171.6	3163.7	3142.3	3091.6	3070.2
45°	2778.5	2757.1	2705.3	2609.6	2597.2
47.5°	2344.9	2292.0	2228.9	2157.9	2144.4
50°	1803.2	1807.7	1776.1	1752.5	1754.7
52.5°	1314.4	1330.1	1338.0	1360.5	1372.9
55°	923.5	937.1	978.7	1029.4	1059.8
57.5°	598.0	624.0	678.0	735.5	756.9
60°	381.8	398.7	447.1	488.8	517.0
62.5°	250.0	255.7	282.7	321.0	322.1
65°	152.0	171.2	183.6	199.3	210.6
67.5°	99.1	99.1	110.4	125.0	128.4
70°	57.4	58.6	64.2	69.8	73.2
72.5°	31.5	34.9	38.3	43.9	49.6
75°	20.3	28.2	29.3	28.2	33.8
77.5°	13.5	13.5	11.3	19.1	20.3
80°	11.3	7.9	10.1	14.6	15.8
82.5°	0.0	1.1	1.1	2.3	0.0
85°	2.3	3.4	5.6	12.4	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)