

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: P247372

Luminaire Tested: **LD8B100D010 ER8B100950 8LBSOWMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247372
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: LD8B100D010 ER8B100950 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10744.0 lumens
Efficiency: N/A
Efficacy: 101.1 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

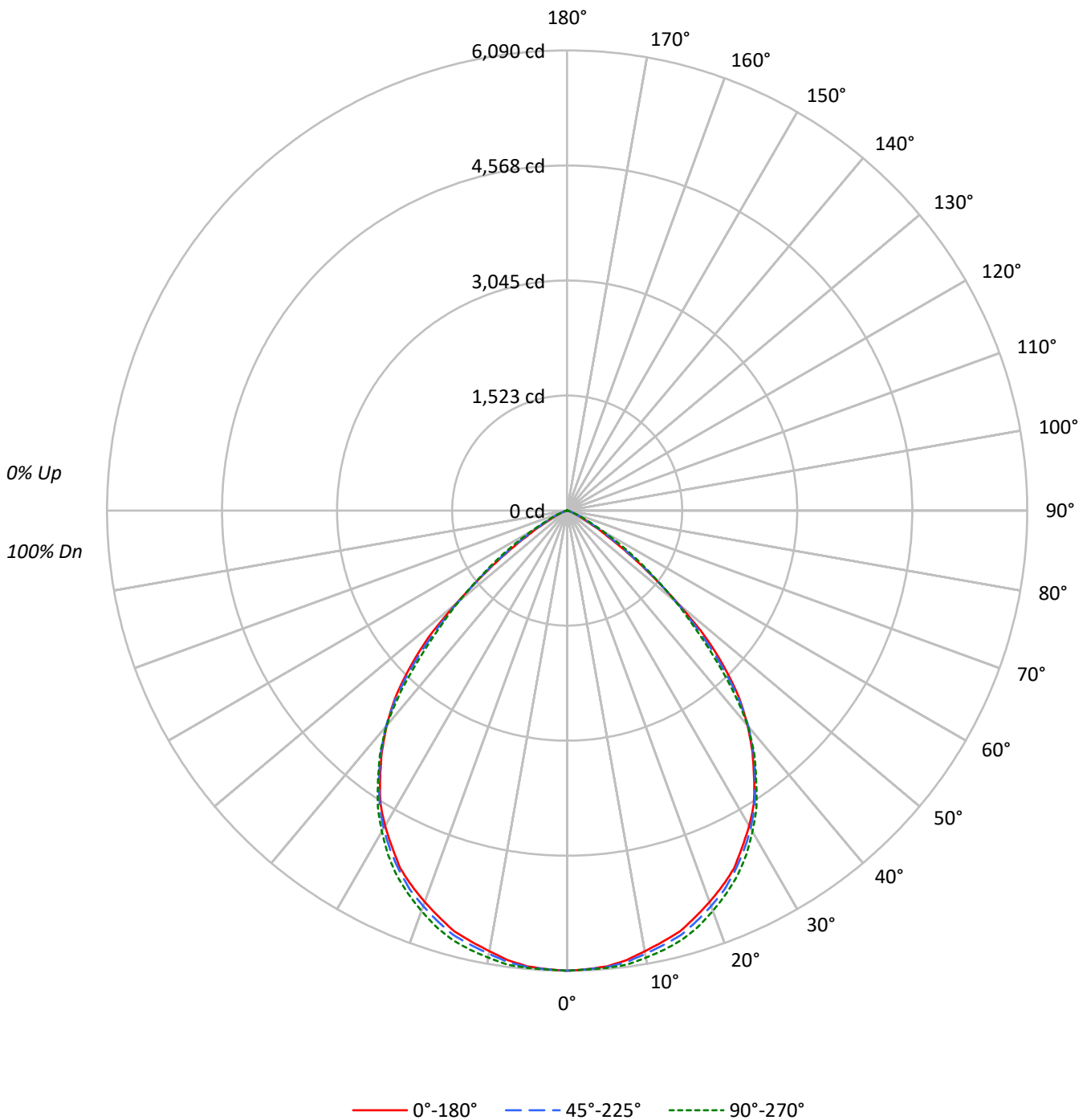
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	187790	187790	187790
5°	187393	187690	188025
10°	185395	186485	188135
15°	184084	185690	187682
20°	180888	182775	185016
25°	177766	178906	181393
30°	171610	172977	174597
35°	162397	163387	164245
40°	149535	150260	149874
45°	128922	125525	120505
50°	92036	90659	89565
55°	52826	55982	60621
60°	25051	29338	33920
65°	11806	14250	16351
70°	5509	6158	7023
75°	2573	3717	4277
80°	2131	1918	2983
85°	849	2123	1274



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	575.4	5.4
10°-20°	1637.4	15.2
20°-30°	2418.9	22.5
30°-40°	2703.0	25.2
40°-50°	2182.2	20.3
50°-60°	970.6	9.0
60°-70°	218.6	2.0
70°-80°	33.8	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°	4631.7	43.1
0°-40°	7334.7	68.3
0°-60°	10487.6	97.6
0°-90°	10744.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10744.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6090	6090	6090	6090	6090	
5°	6054	6053	6064	6065	6074	574
15°	5766	5770	5817	5860	5879	1622
25°	5225	5225	5258	5301	5331	2395
35°	4314	4312	4340	4345	4363	2689
45°	2956	2934	2878	2776	2763	2235
55°	983	997	1041	1095	1128	924
65°	162	182	195	212	224	188
75°	22	30	31	30	36	28
85°	2	4	6	13	4	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6089.9	6089.9	6089.9	6089.9	6089.9
2.5°	6074.3	6070.7	6076.7	6073.1	6079.1
5°	6053.9	6052.7	6063.5	6064.7	6074.3
7.5°	6001.2	6002.4	6025.2	6041.9	6061.1
10°	5920.9	5925.7	5955.7	5992.8	6008.4
12.5°	5844.2	5850.2	5888.5	5940.1	5952.1
15°	5766.3	5769.9	5816.6	5859.8	5879.0
17.5°	5639.3	5663.3	5699.2	5748.3	5773.5
20°	5512.3	5529.0	5569.8	5623.7	5638.1
22.5°	5373.3	5391.2	5432.0	5476.3	5491.9
25°	5224.7	5224.7	5258.2	5301.4	5331.3
27.5°	5017.4	5042.5	5066.5	5104.8	5134.8
30°	4819.6	4829.2	4858.0	4889.1	4903.5
32.5°	4600.4	4601.5	4614.7	4649.5	4662.7
35°	4314.0	4311.6	4340.3	4345.1	4363.1
37.5°	4027.6	4039.5	4050.3	4067.1	4068.3
40°	3714.8	3720.8	3732.8	3714.8	3723.2
42.5°	3374.5	3366.1	3343.3	3289.4	3266.6
45°	2956.3	2933.5	2878.4	2776.5	2763.3
47.5°	2494.9	2438.6	2371.5	2296.0	2281.6
50°	1918.5	1923.3	1889.8	1864.6	1867.0
52.5°	1398.4	1415.2	1423.6	1447.6	1460.8
55°	982.6	997.0	1041.3	1095.3	1127.6
57.5°	636.3	663.9	721.4	782.5	805.3
60°	406.2	424.2	475.7	520.1	550.0
62.5°	266.0	272.0	300.8	341.5	342.7
65°	161.8	182.1	195.3	212.1	224.1
67.5°	105.5	105.5	117.4	133.0	136.6
70°	61.1	62.3	68.3	74.3	77.9
72.5°	33.6	37.1	40.7	46.7	52.7
75°	21.6	30.0	31.2	30.0	35.9
77.5°	14.4	14.4	12.0	20.4	21.6
80°	12.0	8.4	10.8	15.6	16.8
82.5°	0.0	1.2	1.2	2.4	0.0
85°	2.4	3.6	6.0	13.2	3.6
87.5°	0.0	3.6	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)