

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: P247716

Luminaire Tested: **LD8B100D010 ER8B100930 8LBW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247716
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-63)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B100D010 ER8B100930 8LBW0MW
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9288.6 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.09 / 1.05
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

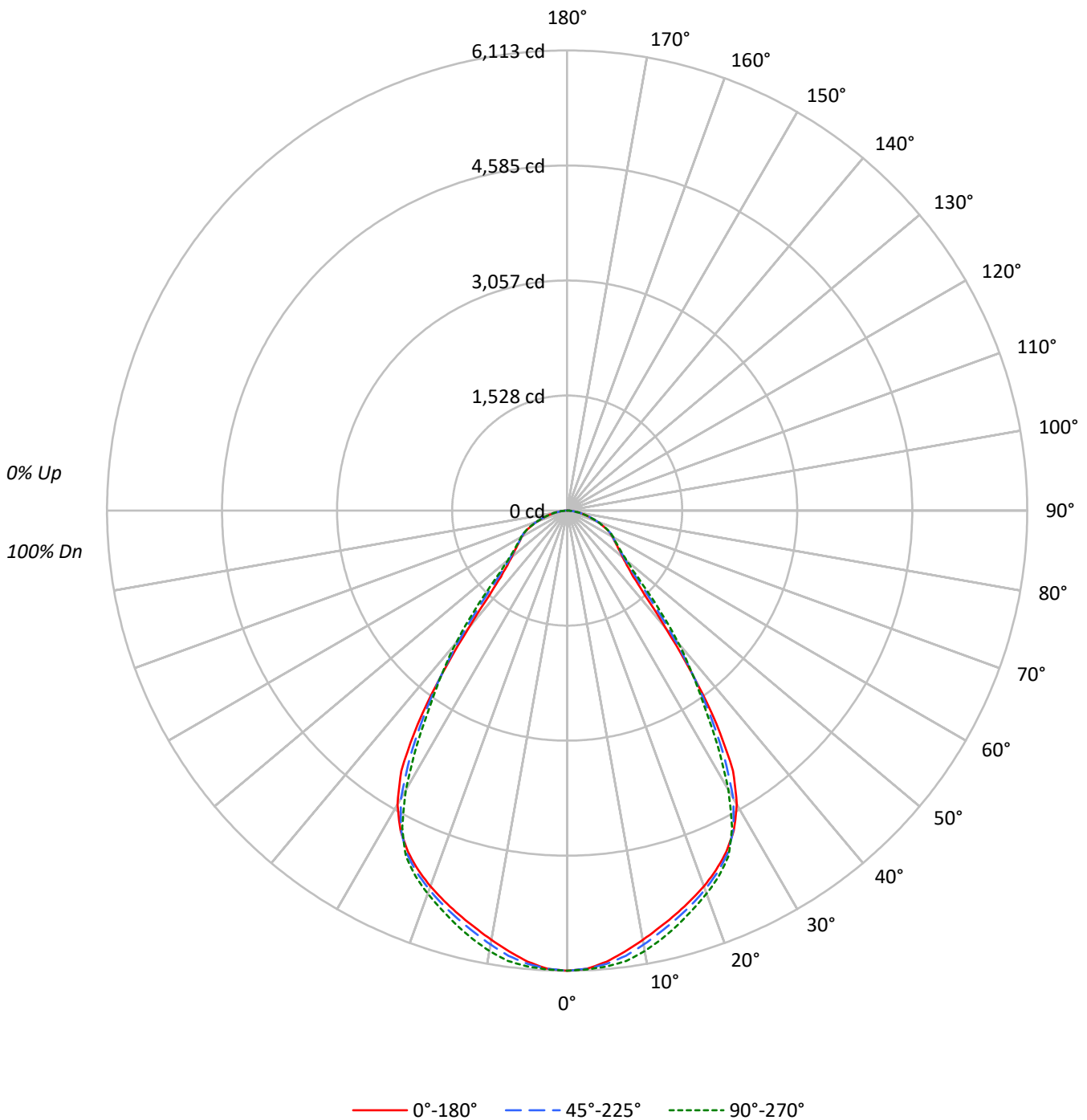
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57
6	79	67	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.2	6.1
10°-20°	1584.7	17.1
20°-30°	2291.0	24.7
30°-40°	2050.3	22.1
40°-50°	1109.5	11.9
50°-60°	739.5	8.0
60°-70°	566.3	6.1
70°-80°	300.1	3.2
80°-90°	75.9	0.8
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°	4446.8	47.9
0°-40°	6497.1	69.9
0°-60°	8346.2	89.9
0°-90°	9288.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9288.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6113	6113	6113	6113	6113	
5°	6015	6018	6044	6068	6078	567
15°	5556	5566	5615	5669	5695	1567
25°	5003	5015	5034	5058	5067	2289
35°	3461	3425	3305	3210	3179	2095
45°	1245	1281	1362	1446	1478	1024
55°	805	808	816	824	827	728
65°	573	575	579	584	584	562
75°	278	278	281	282	282	298
85°	64	64	64	66	64	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6112.6	6112.6	6112.6	6112.6	6112.6
2.5°	6092.2	6090.1	6091.1	6097.6	6100.7
5°	6014.9	6018.1	6043.9	6067.5	6078.2
7.5°	5906.5	5920.4	5964.5	6010.6	6034.2
10°	5790.6	5804.5	5855.0	5920.4	5940.9
12.5°	5671.5	5688.6	5733.7	5800.3	5824.9
15°	5555.6	5566.3	5614.6	5669.3	5695.1
17.5°	5436.5	5447.2	5491.2	5534.2	5554.6
20°	5312.0	5323.9	5357.0	5393.6	5416.1
22.5°	5169.3	5181.0	5209.0	5241.1	5261.5
25°	5002.9	5014.8	5034.1	5057.6	5067.4
27.5°	4792.6	4800.1	4781.8	4762.6	4745.4
30°	4507.2	4483.6	4410.6	4317.2	4280.8
32.5°	4101.5	4025.3	3884.7	3770.9	3729.1
35°	3460.9	3425.4	3305.3	3209.8	3178.6
37.5°	2713.9	2737.6	2729.0	2722.6	2729.0
40°	2024.0	2078.7	2196.7	2277.2	2303.0
42.5°	1532.4	1585.0	1718.0	1829.7	1868.4
45°	1244.9	1281.3	1361.8	1446.5	1477.7
47.5°	1074.3	1094.5	1135.3	1180.4	1195.4
50°	964.7	973.4	993.8	1019.4	1028.1
52.5°	877.9	882.1	893.9	907.9	910.0
55°	804.9	808.0	815.5	824.2	827.4
57.5°	743.7	746.9	749.1	754.4	756.6
60°	695.4	695.4	699.7	704.0	706.1
62.5°	642.8	642.8	647.2	651.4	651.4
65°	573.1	575.2	579.4	583.8	583.8
67.5°	496.8	497.9	501.2	505.5	504.3
70°	420.7	420.7	423.9	426.0	427.1
72.5°	347.7	346.6	352.0	353.1	349.9
75°	277.9	277.9	281.1	282.3	282.3
77.5°	216.8	215.7	215.7	216.8	217.8
80°	158.8	159.9	158.8	161.0	163.1
82.5°	110.5	109.4	109.4	109.4	108.4
85°	64.3	64.3	64.3	65.5	64.3
87.5°	25.8	25.8	24.7	24.7	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)