

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: P247632

Luminaire Tested: **LD8B100D010 ER8B100835 8LBS0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B100D010 ER8B100835 8LBS0B
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3500 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10105.0 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

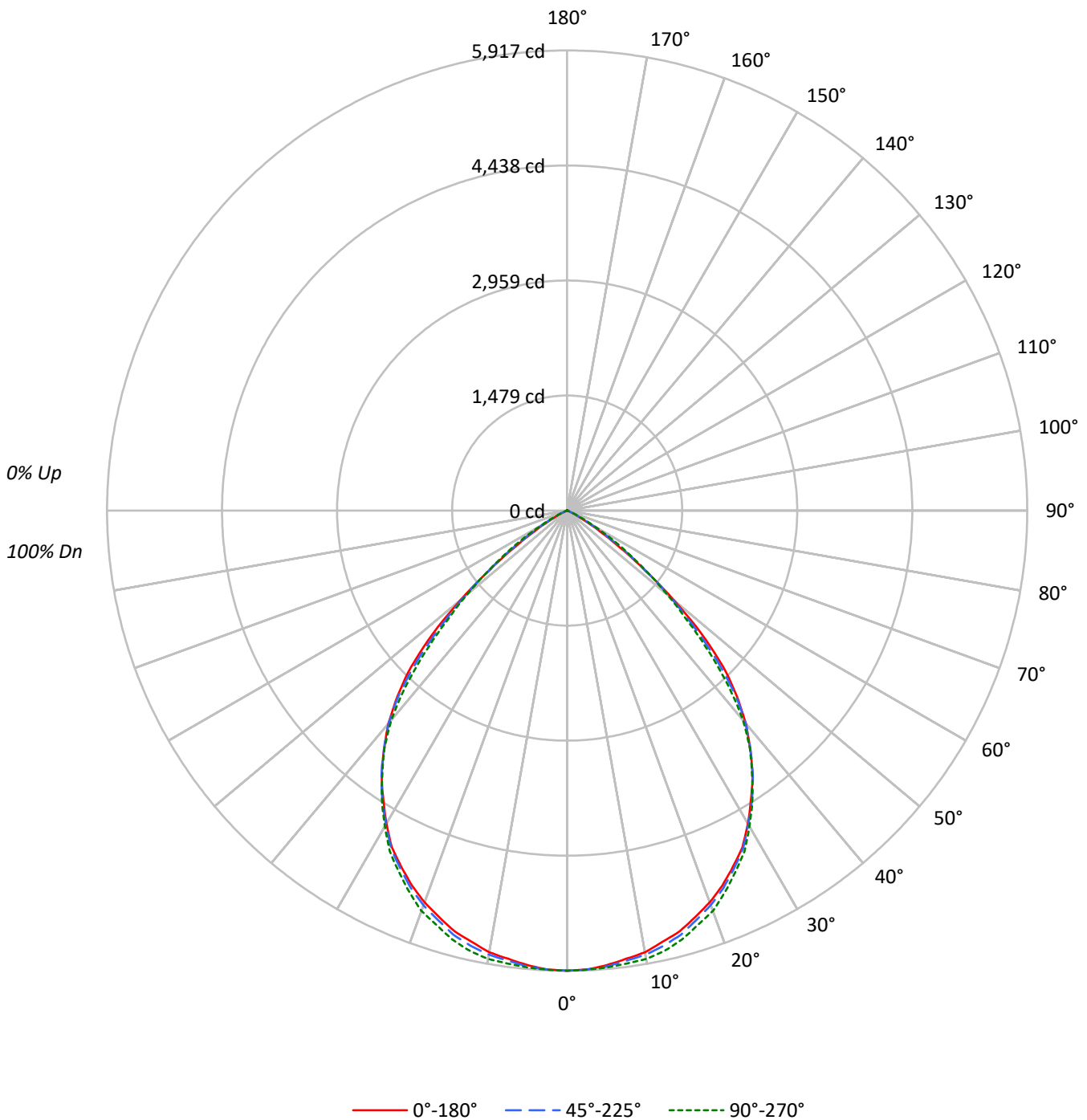
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	103	101	99	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73					73			
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65					65			
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59					59			
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44					44			
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40					40			
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	182449	182449	182449
5°	181617	182100	182543
10°	180583	181560	183269
15°	178762	180298	182245
20°	175907	177186	179785
25°	171818	172747	174295
30°	165464	165881	166946
35°	156491	156735	156099
40°	143799	143642	141658
45°	123654	118612	113170
50°	85967	82911	80609
55°	44853	48767	51627
60°	18193	21481	24922
65°	5786	7114	7588
70°	820	469	234
75°	0	0	0
80°	2078	462	693
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.8	5.5
10°-20°	1590.1	15.7
20°-30°	2335.9	23.1
30°-40°	2586.1	25.6
40°-50°	2061.0	20.4
50°-60°	844.5	8.4
60°-70°	124.4	1.2
70°-80°	1.8	0.0
80°-90°	2.5	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°	4484.7	44.4
0°-40°	7070.8	70.0
0°-60°	9976.3	98.7
0°-90°	10105.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10105.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5917	5917	5917	5917	5917	
5°	5867	5878	5883	5892	5897	557
15°	5600	5604	5648	5701	5709	1576
25°	5050	5045	5077	5107	5123	2322
35°	4157	4152	4164	4158	4147	2584
45°	2836	2810	2720	2618	2595	2128
55°	834	863	907	959	960	803
65°	79	83	98	107	104	105
75°	0	0	0	0	0	3
85°	0	0	0	5	0	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5916.7	5916.7	5916.7	5916.7	5916.7
2.5°	5906.3	5907.6	5907.6	5901.1	5908.9
5°	5867.3	5877.7	5882.9	5892.0	5897.2
7.5°	5812.7	5810.1	5837.4	5869.9	5873.8
10°	5767.2	5762.0	5798.4	5841.3	5853.0
12.5°	5677.6	5684.0	5730.8	5775.0	5798.4
15°	5599.6	5603.5	5647.7	5700.9	5708.7
17.5°	5478.7	5490.4	5520.3	5576.2	5586.6
20°	5360.5	5365.7	5399.5	5444.9	5478.7
22.5°	5216.2	5225.3	5251.3	5291.6	5308.5
25°	5049.9	5044.7	5077.2	5107.1	5122.7
27.5°	4881.0	4871.9	4896.5	4925.1	4939.4
30°	4647.0	4644.4	4658.7	4676.9	4688.6
32.5°	4401.4	4407.9	4422.2	4427.4	4431.3
35°	4157.1	4151.9	4163.6	4158.4	4146.7
37.5°	3867.3	3871.2	3871.2	3866.0	3860.8
40°	3572.3	3576.2	3568.4	3539.9	3519.1
42.5°	3226.7	3229.3	3189.0	3125.3	3082.4
45°	2835.5	2809.5	2719.9	2618.5	2595.1
47.5°	2343.0	2298.8	2205.3	2128.6	2101.3
50°	1792.0	1759.5	1728.3	1688.1	1680.3
52.5°	1256.6	1273.5	1285.2	1298.2	1294.3
55°	834.3	862.9	907.1	959.0	960.3
57.5°	501.6	534.1	590.0	647.2	674.4
60°	295.0	308.0	348.3	391.2	404.1
62.5°	159.8	163.7	181.9	224.8	218.3
65°	79.3	83.2	97.5	106.6	104.0
67.5°	39.0	42.9	45.5	58.5	48.1
70°	9.1	2.6	5.2	6.5	2.6
72.5°	0.0	0.0	2.6	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	2.6	0.0	0.0	0.0	5.2
80°	11.7	7.8	2.6	2.6	3.9
82.5°	3.9	1.3	3.9	1.3	0.0
85°	0.0	0.0	0.0	5.2	0.0
87.5°	6.5	1.3	1.3	3.9	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)