

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: P250143

Luminaire Tested: **LD8B100D010 ER8B100840 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250143
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13942)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B100D010 ER8B100840 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10839.0 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

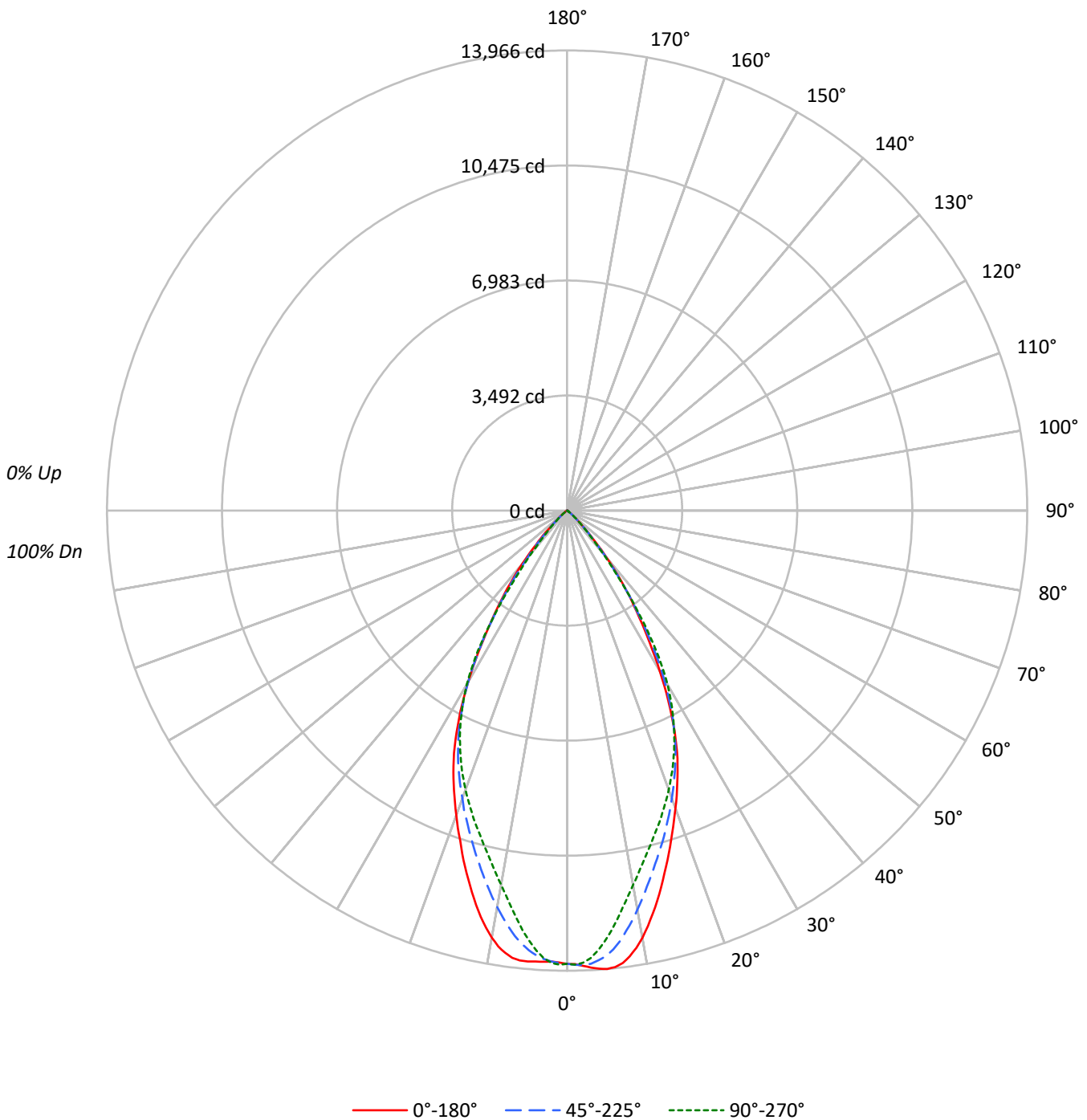
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100	100	100		
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94	94	94	94	94	94	94		
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87	87	87	87	87	87	87		
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81	81	81	81	81	81	81		
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76	76	76	76	76	76	76		
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71	71	71	71	71	71	71		
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66	66	66	66	66	66	66		
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62	62	62	62	62	62	62		
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58	58	58	58	58	58	58		
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55	55	55	55	55	55	55		
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52	52	52	52	52	52	52		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	424175	424175	424175
5°	432317	406124	425275
10°	412182	361287	412076
15°	363973	325856	370163
20°	315418	295771	322880
25°	266501	261948	276286
30°	200298	216852	213996
35°	134081	141764	145412
40°	75122	64487	86160
45°	30191	26545	35877
50°	10424	10108	12353
55°	2876	3419	3236
60°	1653	2066	1856
65°	1459	1219	970
70°	0	911	604
75°	0	0	0
80°	0	0	604
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1248.7	11.5
10°-20°	3020.3	27.9
20°-30°	3539.9	32.7
30°-40°	2329.1	21.5
40°-50°	607.8	5.6
50°-60°	74.8	0.7
60°-70°	15.5	0.1
70°-80°	2.9	0.0
80°-90°	0.1	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°	7808.9	72.0
0°-40°	10138.0	93.5
0°-60°	10820.5	99.8
0°-90°	10839.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10839.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13756	13756	13756	13756	13756	
5°	13966	13568	13120	13391	13739	###
15°	11401	10756	10207	10756	11595	3178
25°	7833	7756	7699	7829	8120	3531
35°	3562	3642	3766	3803	3863	2230
45°	692	652	609	706	823	621
55°	54	57	64	64	60	71
65°	20	17	17	13	13	14
75°	0	3	0	0	0	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	13755.7	13755.7	13755.7	13755.7	13755.7	13755.7	13755.7	13755.7	13755.7
1°	13765.6	13785.8	13792.4	13812.5	13782.4	13762.4	13735.6	13715.5	13718.8
2°	13825.9	13835.9	13799.1	13785.8	13732.3	13715.5	13695.4	13692.1	13695.4
3°	13889.5	13869.3	13772.4	13682.1	13601.8	13591.7	13628.6	13682.1	13712.1
4°	13939.6	13886.1	13682.1	13514.8	13387.7	13377.8	13524.9	13662.0	13718.8
5°	13966.4	13869.3	13568.3	13287.4	13120.2	13183.7	13391.1	13635.2	13738.9
6°	13929.6	13785.8	13394.4	13019.9	12829.2	12912.9	13217.2	13571.7	13725.5
7°	13835.9	13652.0	13170.4	12728.9	12494.8	12625.2	13013.2	13464.7	13675.4
8°	13662.0	13441.3	12886.1	12391.1	12160.3	12307.5	12762.4	13310.8	13555.0
9°	13434.5	13190.4	12605.2	12083.4	11835.9	12009.8	12501.5	13106.8	13387.7
10°	13163.7	12902.8	12294.1	11762.4	11538.3	11702.2	12220.6	12869.3	13160.3
11°	12845.9	12595.1	11983.1	11461.4	11247.3	11407.9	11939.6	12585.1	12899.4
12°	12501.5	12270.7	11665.4	11170.4	10969.7	11123.6	11638.6	12290.8	12601.8
13°	12157.0	11926.2	11357.7	10889.5	10705.5	10852.6	11344.3	11969.7	12280.7
14°	11785.8	11575.1	11050.0	10621.9	10454.7	10595.1	11043.3	11645.3	11939.6
15°	11401.2	11233.9	10755.7	10364.4	10207.2	10340.9	10755.7	11310.8	11595.1
16°	11040.0	10886.1	10471.4	10110.2	9979.8	10086.8	10464.8	10976.5	11247.3
17°	10672.0	10531.6	10187.1	9859.4	9742.3	9846.0	10167.1	10638.7	10882.8
18°	10304.2	10187.1	9876.1	9595.2	9491.5	9585.1	9872.8	10297.5	10518.2
19°	9963.0	9856.0	9591.8	9354.4	9260.8	9344.3	9615.3	9969.8	10190.5
20°	9611.9	9524.9	9294.1	9100.2	9013.2	9090.1	9300.9	9645.4	9839.3
21°	9274.1	9197.2	8996.5	8832.6	8762.4	8826.0	9019.9	9331.0	9501.5
22°	8922.9	8879.5	8698.9	8561.7	8514.9	8555.0	8732.3	8999.9	9160.4
23°	8578.4	8538.3	8401.2	8287.5	8247.3	8287.5	8444.7	8685.5	8829.3
24°	8230.6	8187.2	8086.9	8013.2	7979.8	8013.2	8147.0	8351.0	8488.2
25°	7832.7	7826.0	7755.8	7715.6	7698.9	7735.6	7829.3	8006.6	8120.3
26°	7451.4	7431.3	7411.3	7404.5	7407.9	7428.0	7504.9	7638.7	7729.0
27°	6983.2	7013.3	7043.3	7083.5	7096.9	7113.6	7150.4	7247.3	7314.3
28°	6535.0	6591.9	6665.4	6745.7	6782.5	6782.5	6785.8	6839.3	6896.2
29°	6090.2	6150.4	6267.5	6387.9	6438.0	6431.3	6404.6	6428.0	6461.4
30°	5625.3	5702.3	5859.5	6016.7	6090.2	6063.5	6013.3	5989.9	6010.0
31°	5170.5	5247.4	5421.3	5591.9	5688.8	5658.8	5571.8	5555.1	5565.1
32°	4735.7	4812.7	4973.1	5153.7	5264.1	5224.0	5133.7	5106.9	5110.3
33°	4314.3	4374.5	4521.7	4688.9	4779.2	4769.1	4695.6	4662.2	4665.4
34°	3916.3	3966.5	4076.8	4204.0	4290.9	4287.5	4234.0	4237.4	4247.4
35°	3561.8	3588.6	3642.0	3712.3	3765.9	3795.9	3802.6	3829.4	3862.8
37.5°	2692.3	2702.3	2638.8	2568.5	2555.1	2642.1	2792.6	2923.1	2973.2
40°	1866.2	1842.8	1762.5	1638.8	1602.0	1699.0	1889.6	2073.6	2140.4
42.5°	1160.5	1150.5	1100.3	1006.7	973.2	1030.1	1173.9	1314.4	1381.3
45°	692.3	678.9	652.1	615.4	608.7	632.1	705.6	785.9	822.7
47.5°	398.0	394.7	377.9	364.6	361.2	377.9	411.4	458.2	468.2
50°	217.3	214.1	210.7	210.7	210.7	220.7	237.5	250.8	257.5
52.5°	107.0	110.4	107.0	110.4	113.7	120.4	117.0	130.4	130.4
55°	53.5	50.2	56.9	63.6	63.6	63.6	63.6	63.6	60.2
57.5°	40.1	43.5	36.8	40.1	36.8	36.8	33.5	36.8	40.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	26.8	23.4	26.8	30.1	33.5	30.1	23.4	26.8	30.1
62.5°	13.3	13.3	13.3	20.0	30.1	23.4	20.0	16.7	16.7
65°	20.0	13.3	16.7	20.0	16.7	16.7	13.3	16.7	13.3
67.5°	10.1	16.7	10.1	6.7	10.1	13.3	10.1	6.7	6.7
70°	0.0	3.4	3.4	10.1	10.1	10.1	10.1	6.7	6.7
72.5°	3.4	3.4	3.4	6.7	3.4	6.7	3.4	3.4	6.7
75°	0.0	0.0	3.4	3.4	0.0	3.4	0.0	0.0	0.0
77.5°	3.4	0.0	3.4	3.4	0.0	0.0	0.0	3.4	0.0
80°	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	3.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)