

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: P247804

Luminaire Tested: **LD8B200D010 ER8B200827 8LBNOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-89)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200827 8LBNOLI
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18735.0 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.63
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

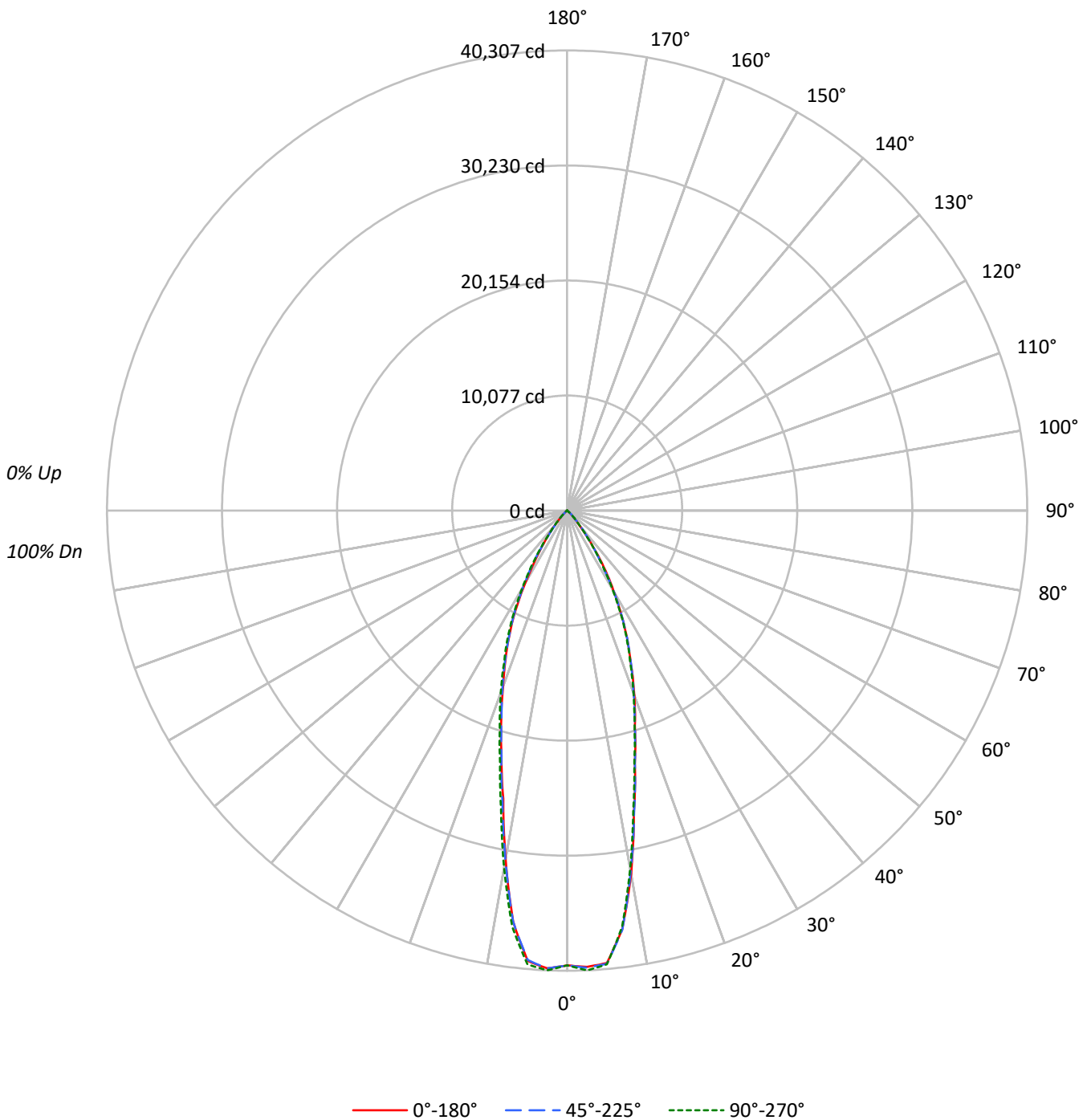
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	114	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	95				
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90				
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	90	88	86	85				
4	100	94	89	85	98	92	88	84	90	87	83	88	85	83	87	84	82	80				
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76				
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72				
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69				
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	67	65				
9	81	73	68	64	80	72	67	64	72	67	64	71	67	64	70	66	63	62				
10	78	70	65	61	77	69	64	61	69	64	61	68	64	61	67	63	61	60				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	1228331	1228331	1228331
5°	1231593	1234840	1226067
10°	1011281	995290	970506
15°	732763	725309	708610
20°	565293	557591	539195
25°	424485	419432	405455
30°	289664	281574	259569
35°	163741	156739	143485
40°	65888	68500	65936
45°	27168	27875	25808
50°	8266	8146	5929
55°	2349	1747	1210
60°	1850	1696	463
65°	817	1729	365
70°	451	902	0
75°	2526	1489	1037
80°	1989	888	2433
85°	2654	4847	6616



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3521.0	18.8
10°-20°	6380.4	34.1
20°-30°	5559.4	29.7
30°-40°	2648.0	14.1
40°-50°	550.2	2.9
50°-60°	43.7	0.2
60°-70°	16.9	0.1
70°-80°	7.5	0.0
80°-90°	7.8	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°	15460.8	82.5
0°-40°	18108.8	96.7
0°-60°	18702.7	99.8
0°-90°	18735.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18735.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	39834	39834	39834	39834	39834	
5°	39788	39851	39893	39518	39609	###
15°	22953	22956	22720	22249	22197	6482
25°	12476	12464	12328	11957	11917	5672
35°	4350	4202	4164	3953	3812	2785
45°	623	689	639	573	592	550
55°	44	34	32	30	22	48
65°	11	19	24	8	5	17
75°	21	14	12	15	9	10
85°	8	8	14	9	19	7
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°	39833.9	39833.9	39833.9	39833.9	39833.9	39833.9	39833.9	39833.9	39833.9
2.5°	40007.5	40014.9	40077.4	40255.9	40307.1	40267.1	40132.3	40083.6	40132.3
5°	39787.7	39761.5	39851.4	39983.7	39892.6	39729.0	39518.1	39469.4	39609.2
7.5°	36971.2	36953.7	37038.6	37028.6	36787.6	36479.3	36303.2	36164.6	36284.5
10°	32296.9	32140.8	32084.6	32183.3	31786.2	31360.5	31107.1	31200.7	30994.7
12.5°	27034.5	27013.3	27113.2	26992.1	26762.4	26501.4	26190.6	26023.3	25873.4
15°	22953.3	23009.4	22955.8	22905.8	22719.8	22523.8	22249.1	22133.0	22196.7
17.5°	19749.7	19733.4	19677.3	19760.9	19617.3	19336.4	19095.5	19136.7	19206.6
20°	17226.5	17157.8	17025.5	17060.4	16991.8	16773.3	16553.6	16406.2	16431.2
22.5°	14625.9	14685.8	14669.6	14566.0	14458.6	14298.8	14191.4	13999.2	14089.1
25°	12476.0	12486.0	12463.6	12448.6	12327.5	12173.9	11956.7	11910.5	11916.7
27.5°	10276.2	10323.7	10304.9	10241.3	10118.9	9990.3	9855.5	9749.4	9739.4
30°	8135.1	8202.5	8068.9	7977.8	7907.9	7885.4	7659.4	7500.9	7289.9
32.5°	6294.8	6194.9	5769.2	5770.5	5906.5	5960.2	5744.2	5384.7	5326.0
35°	4349.7	4332.2	4202.4	4162.4	4163.7	4111.2	3952.7	3812.9	3811.6
37.5°	2726.7	2791.6	2864.0	2847.8	2688.0	2525.7	2449.5	2531.9	2555.6
40°	1636.8	1721.7	1809.0	1819.0	1701.7	1514.4	1490.7	1566.8	1638.0
42.5°	1025.0	1061.2	1119.9	1131.1	1047.5	978.8	935.1	990.0	990.0
45°	623.0	656.7	689.2	691.7	639.2	581.8	573.1	594.3	591.8
47.5°	367.1	368.3	380.8	372.0	354.6	327.1	315.9	327.1	329.6
50°	172.3	168.5	174.8	191.0	169.8	143.6	146.1	137.3	123.6
52.5°	41.2	37.5	44.9	48.7	47.4	49.9	47.4	47.4	36.2
55°	43.7	27.5	33.7	35.0	32.5	35.0	30.0	20.0	22.5
57.5°	30.0	31.2	31.2	35.0	30.0	37.5	31.2	22.5	25.0
60°	30.0	21.2	20.0	33.7	27.5	18.7	21.2	28.7	7.5
62.5°	22.5	21.2	23.7	33.7	23.7	27.5	21.2	33.7	22.5
65°	11.2	18.7	18.7	18.7	23.7	21.2	7.5	15.0	5.0
67.5°	16.2	8.7	7.5	16.2	20.0	13.7	6.2	6.2	11.2
70°	5.0	7.5	3.7	8.7	10.0	8.7	6.2	1.2	0.0
72.5°	8.7	3.7	8.7	7.5	12.5	8.7	7.5	6.2	5.0
75°	21.2	16.2	13.7	15.0	12.5	7.5	15.0	15.0	8.7
77.5°	0.0	0.0	2.5	0.0	0.0	0.0	1.2	0.0	0.0
80°	11.2	8.7	8.7	8.7	5.0	7.5	3.7	1.2	13.7
82.5°	11.2	13.7	13.7	6.2	16.2	10.0	8.7	2.5	13.7
85°	7.5	13.7	7.5	6.2	13.7	11.2	8.7	3.7	18.7
87.5°	0.0	7.5	7.5	5.0	7.5	2.5	6.2	3.7	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)