

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: P247813

Luminaire Tested: **LD8B200D010 ER8B200840 8LBNOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247813
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 ER8B200840 8LBNOLI
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19840.0 lumens
Efficiency: N/A
Efficacy: 88.8 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

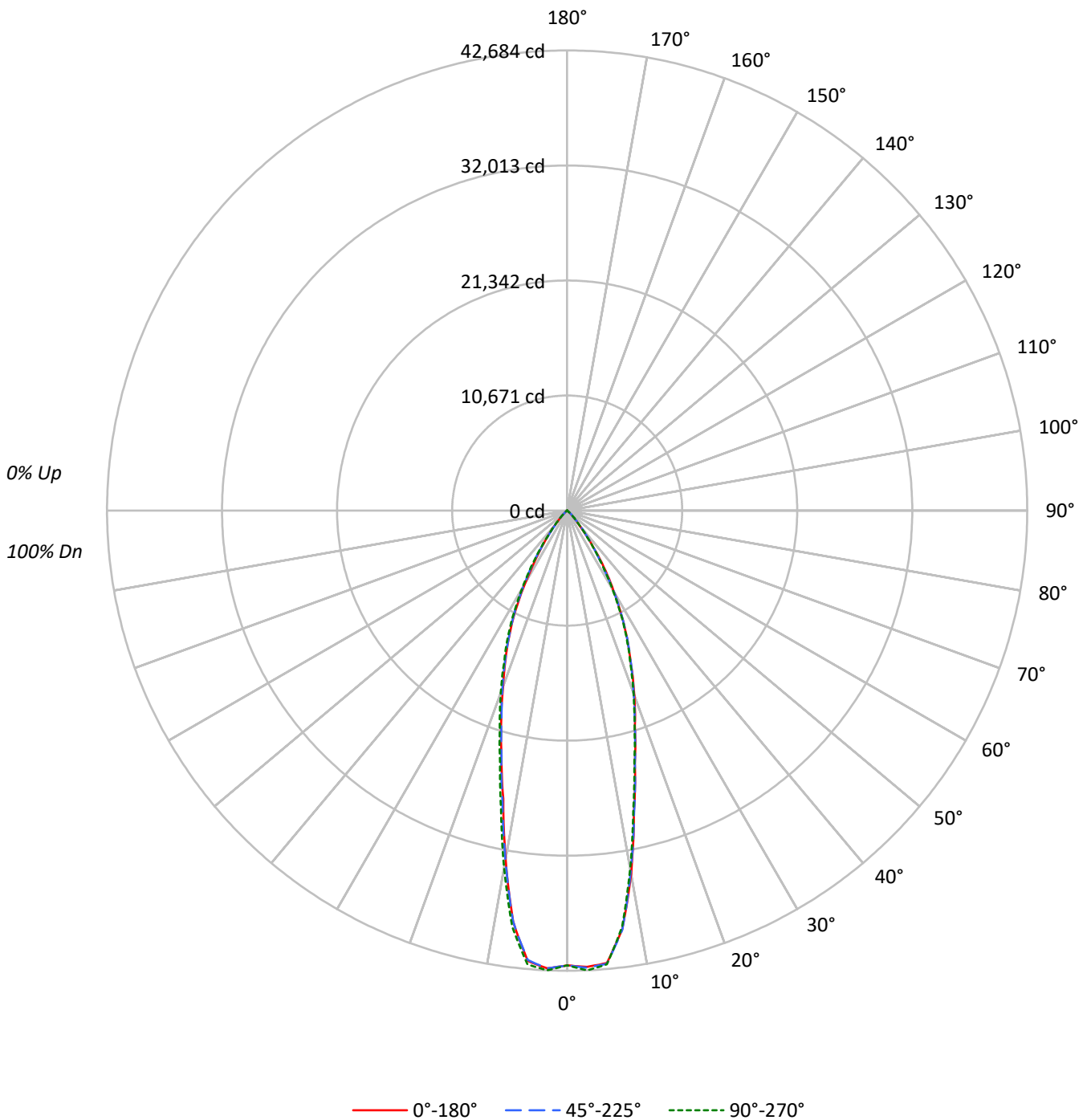
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1300777	1300777	1300777
5°	1304233	1307672	1298382
10°	1070924	1053994	1027748
15°	775982	768088	750405
20°	598633	590479	570996
25°	449523	444168	429371
30°	306748	298181	274877
35°	173397	165981	151947
40°	69772	72538	69825
45°	28769	29519	27330
50°	8755	8626	6280
55°	2489	1849	1280
60°	1955	1795	487
65°	868	1831	387
70°	478	956	0
75°	2681	1573	1108
80°	2113	941	2575
85°	2795	5130	7005



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3728.6	18.8
10°-20°	6756.7	34.1
20°-30°	5887.3	29.7
30°-40°	2804.2	14.1
40°-50°	582.7	2.9
50°-60°	46.3	0.2
60°-70°	17.9	0.1
70°-80°	8.0	0.0
80°-90°	8.3	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°	16372.6	82.5
0°-40°	19176.8	96.7
0°-60°	19805.8	99.8
0°-90°	19840.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19840.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	42183	42183	42183	42183	42183	
5°	42134	42202	42246	41849	41945	###
15°	24307	24310	24060	23561	23506	6864
25°	13212	13199	13054	12662	12620	6006
35°	4606	4450	4409	4186	4036	2949
45°	660	730	677	607	627	583
55°	46	36	34	32	24	50
65°	12	20	25	8	5	18
75°	22	14	13	16	9	11
85°	8	8	14	9	20	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°	42183.3	42183.3	42183.3	42183.3	42183.3	42183.3	42183.3	42183.3	42183.3
2.5°	42367.1	42375.1	42441.2	42630.2	42684.4	42642.1	42499.3	42447.8	42499.3
5°	42134.4	42106.7	42201.9	42342.0	42245.5	42072.3	41848.9	41797.3	41945.4
7.5°	39151.7	39133.2	39223.1	39212.6	38957.4	38630.8	38444.4	38297.7	38424.6
10°	34201.7	34036.5	33977.0	34081.4	33661.0	33210.2	32941.8	33040.9	32822.8
12.5°	28629.0	28606.6	28712.3	28584.1	28340.8	28064.5	27735.3	27558.1	27399.5
15°	24307.1	24366.5	24309.7	24256.8	24059.8	23852.2	23561.4	23438.4	23505.9
17.5°	20914.5	20897.3	20837.8	20926.4	20774.4	20476.9	20221.7	20265.4	20339.4
20°	18242.5	18169.8	18029.7	18066.7	17994.0	17762.6	17529.9	17373.9	17400.3
22.5°	15488.6	15552.0	15534.8	15425.1	15311.4	15142.2	15028.5	14824.9	14920.0
25°	13211.9	13222.5	13198.7	13182.8	13054.5	12891.9	12661.9	12613.0	12619.6
27.5°	10882.3	10932.6	10912.7	10845.3	10715.7	10579.6	10436.8	10324.4	10313.8
30°	8614.9	8686.3	8544.8	8448.3	8374.3	8350.5	8111.2	7943.3	7719.8
32.5°	6666.1	6560.3	6109.5	6110.8	6254.9	6311.8	6083.0	5702.3	5640.1
35°	4606.2	4587.7	4450.2	4407.9	4409.2	4353.7	4185.8	4037.7	4036.4
37.5°	2887.5	2956.2	3032.9	3015.7	2846.5	2674.6	2594.0	2681.2	2706.4
40°	1733.3	1823.2	1915.7	1926.3	1802.0	1603.7	1578.6	1659.3	1734.6
42.5°	1085.5	1123.8	1185.9	1197.8	1109.3	1036.5	990.3	1048.4	1048.4
45°	659.7	695.4	729.8	732.5	676.9	616.1	606.8	629.3	626.7
47.5°	388.7	390.0	403.2	394.0	375.5	346.4	334.5	346.4	349.0
50°	182.5	178.5	185.1	202.3	179.8	152.0	154.7	145.4	130.9
52.5°	43.6	39.7	47.6	51.6	50.2	52.9	50.2	50.2	38.3
55°	46.3	29.1	35.7	37.0	34.4	37.0	31.7	21.2	23.8
57.5°	31.7	33.1	33.1	37.0	31.7	39.7	33.1	23.8	26.4
60°	31.7	22.5	21.2	35.7	29.1	19.8	22.5	30.4	7.9
62.5°	23.8	22.5	25.1	35.7	25.1	29.1	22.5	35.7	23.8
65°	11.9	19.8	19.8	19.8	25.1	22.5	7.9	15.9	5.3
67.5°	17.2	9.3	7.9	17.2	21.2	14.5	6.6	6.6	11.9
70°	5.3	7.9	4.0	9.3	10.6	9.3	6.6	1.3	0.0
72.5°	9.3	4.0	9.3	7.9	13.2	9.3	7.9	6.6	5.3
75°	22.5	17.2	14.5	15.9	13.2	7.9	15.9	15.9	9.3
77.5°	0.0	0.0	2.6	0.0	0.0	0.0	1.3	0.0	0.0
80°	11.9	9.3	9.3	9.3	5.3	7.9	4.0	1.3	14.5
82.5°	11.9	14.5	14.5	6.6	17.2	10.6	9.3	2.6	14.5
85°	7.9	14.5	7.9	6.6	14.5	11.9	9.3	4.0	19.8
87.5°	0.0	7.9	7.9	5.3	7.9	2.6	6.6	4.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)