

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: P247816

Luminaire Tested: **LD8B200D010 ER8B200850 8LBNOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247816
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 ER8B200850 8LBNOLI
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20228.0 lumens
Efficiency: N/A
Efficacy: 90.6 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

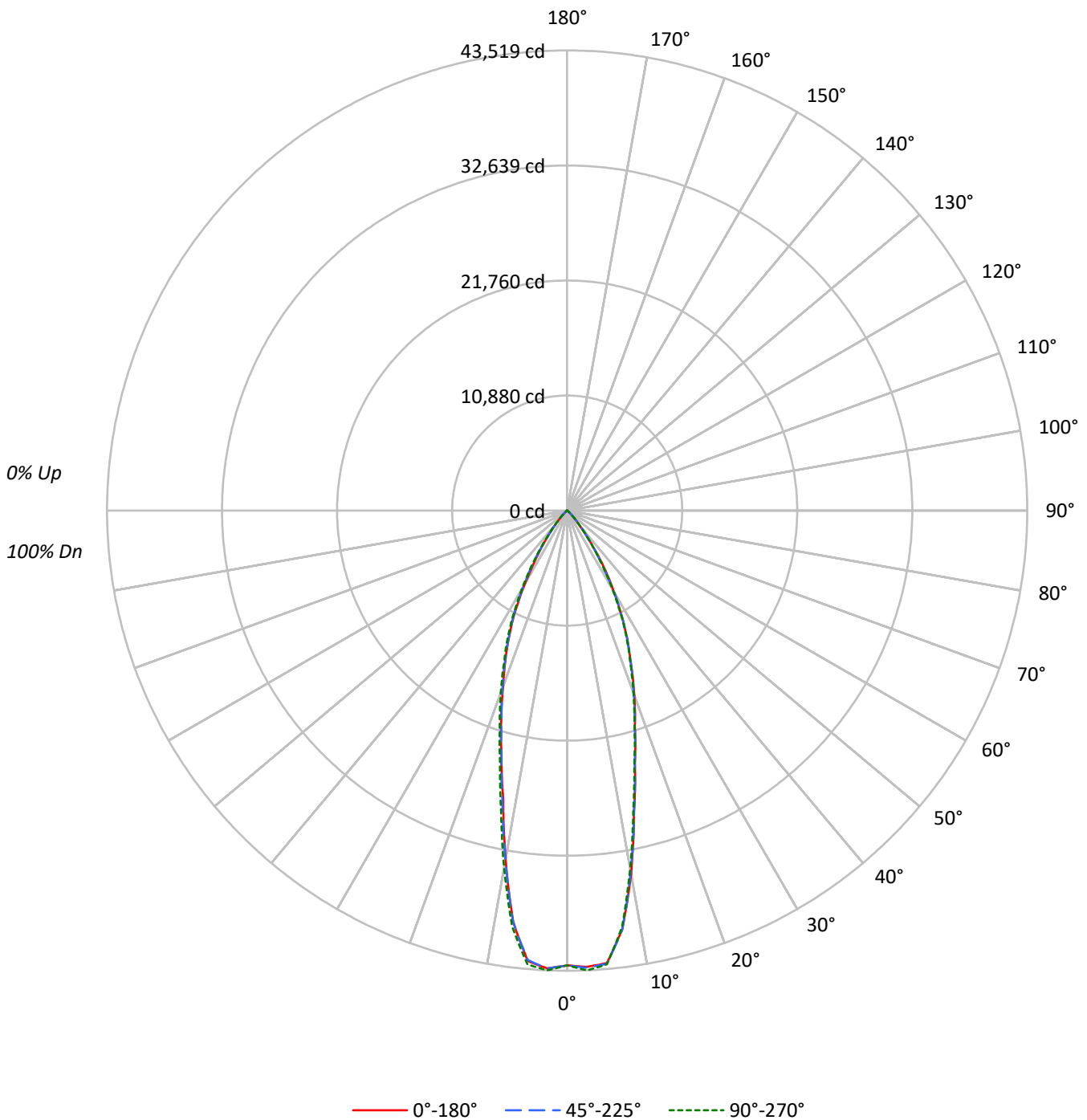
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	1326217	1326217	1326217
5°	1329739	1333246	1323774
10°	1091869	1074606	1047847
15°	791156	783108	765077
20°	610342	602027	582163
25°	458315	452854	437768
30°	312748	304010	280253
35°	176788	169229	154917
40°	71137	73959	71189
45°	29332	30099	27862
50°	8923	8793	6400
55°	2538	1882	1306
60°	1998	1832	500
65°	883	1868	394
70°	487	974	0
75°	2728	1608	1120
80°	2149	959	2628
85°	2866	5236	7147



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3801.5	18.8
10°-20°	6888.9	34.1
20°-30°	6002.4	29.7
30°-40°	2859.0	14.1
40°-50°	594.1	2.9
50°-60°	47.2	0.2
60°-70°	18.3	0.1
70°-80°	8.1	0.0
80°-90°	8.4	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°	16692.8	82.5
0°-40°	19551.9	96.7
0°-60°	20193.1	99.8
0°-90°	20228.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20228.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	43008	43008	43008	43008	43008	
5°	42958	43027	43072	42667	42766	###
15°	24782	24785	24530	24022	23966	6999
25°	13470	13457	13310	12910	12866	6124
35°	4696	4537	4496	4268	4115	3006
45°	673	744	690	619	639	594
55°	47	36	35	32	24	51
65°	12	20	26	8	5	18
75°	23	15	14	16	9	11
85°	8	8	15	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°	43008.3	43008.3	43008.3	43008.3	43008.3	43008.3	43008.3	43008.3	43008.3
2.5°	43195.7	43203.8	43271.2	43463.9	43519.2	43476.0	43330.5	43277.9	43330.5
5°	42958.4	42930.1	43027.2	43170.1	43071.7	42895.1	42667.3	42614.7	42765.7
7.5°	39917.4	39898.5	39990.2	39979.4	39719.3	39386.3	39196.2	39046.6	39176.0
10°	34870.6	34702.1	34641.5	34747.9	34319.3	33859.6	33586.0	33687.1	33464.7
12.5°	29188.9	29166.0	29273.8	29143.1	28895.1	28613.3	28277.7	28097.1	27935.3
15°	24782.4	24843.1	24785.1	24731.2	24530.3	24318.7	24022.2	23896.8	23965.5
17.5°	21323.5	21306.0	21245.3	21335.7	21180.6	20877.3	20617.2	20661.7	20737.2
20°	18599.3	18525.1	18382.3	18420.0	18345.9	18110.0	17872.7	17713.7	17740.6
22.5°	15791.5	15856.2	15838.6	15726.8	15610.8	15438.3	15322.4	15114.8	15211.8
25°	13470.3	13481.0	13456.8	13440.6	13309.8	13144.0	12909.5	12859.6	12866.4
27.5°	11095.1	11146.4	11126.1	11057.4	10925.3	10786.4	10640.9	10526.3	10515.5
30°	8783.4	8856.2	8711.9	8613.5	8538.0	8513.8	8269.8	8098.6	7870.8
32.5°	6796.5	6688.6	6229.0	6230.3	6377.2	6435.2	6202.0	5813.8	5750.4
35°	4696.3	4677.5	4537.3	4494.1	4495.5	4438.9	4267.7	4116.7	4115.3
37.5°	2944.0	3014.1	3092.2	3074.7	2902.2	2726.9	2644.7	2733.7	2759.3
40°	1767.2	1858.8	1953.2	1964.0	1837.3	1635.1	1609.5	1691.7	1768.5
42.5°	1106.7	1145.8	1209.1	1221.3	1130.9	1056.8	1009.6	1068.9	1068.9
45°	672.6	709.0	744.1	746.8	690.2	628.2	618.7	641.6	638.9
47.5°	396.3	397.7	411.1	401.7	382.8	353.2	341.0	353.2	355.9
50°	186.0	182.0	188.7	206.2	183.3	155.0	157.7	148.3	133.4
52.5°	44.5	40.4	48.5	52.6	51.2	53.9	51.2	51.2	39.1
55°	47.2	29.7	36.4	37.7	35.0	37.7	32.4	21.6	24.3
57.5°	32.4	33.7	33.7	37.7	32.4	40.4	33.7	24.3	27.0
60°	32.4	22.9	21.6	36.4	29.7	20.2	22.9	31.0	8.1
62.5°	24.3	22.9	25.6	36.4	25.6	29.7	22.9	36.4	24.3
65°	12.1	20.2	20.2	20.2	25.6	22.9	8.1	16.2	5.4
67.5°	17.5	9.4	8.1	17.5	21.6	14.8	6.7	6.7	12.1
70°	5.4	8.1	4.0	9.4	10.8	9.4	6.7	1.3	0.0
72.5°	9.4	4.0	9.4	8.1	13.5	9.4	8.1	6.7	5.4
75°	22.9	17.5	14.8	16.2	13.5	8.1	16.2	16.2	9.4
77.5°	0.0	0.0	2.7	0.0	0.0	0.0	1.3	0.0	0.0
80°	12.1	9.4	9.4	9.4	5.4	8.1	4.0	1.3	14.8
82.5°	12.1	14.8	14.8	6.7	17.5	10.8	9.4	2.7	14.8
85°	8.1	14.8	8.1	6.7	14.8	12.1	9.4	4.0	20.2
87.5°	0.0	8.1	8.1	5.4	8.1	2.7	6.7	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)