

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: P247830

Luminaire Tested: **LD8B175D010 ER8B175950 8LBNOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247830
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: LD8B175D010 ER8B175950 8LBNOLI
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15623.0 lumens
Efficiency: N/A
Efficacy: 88.2 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

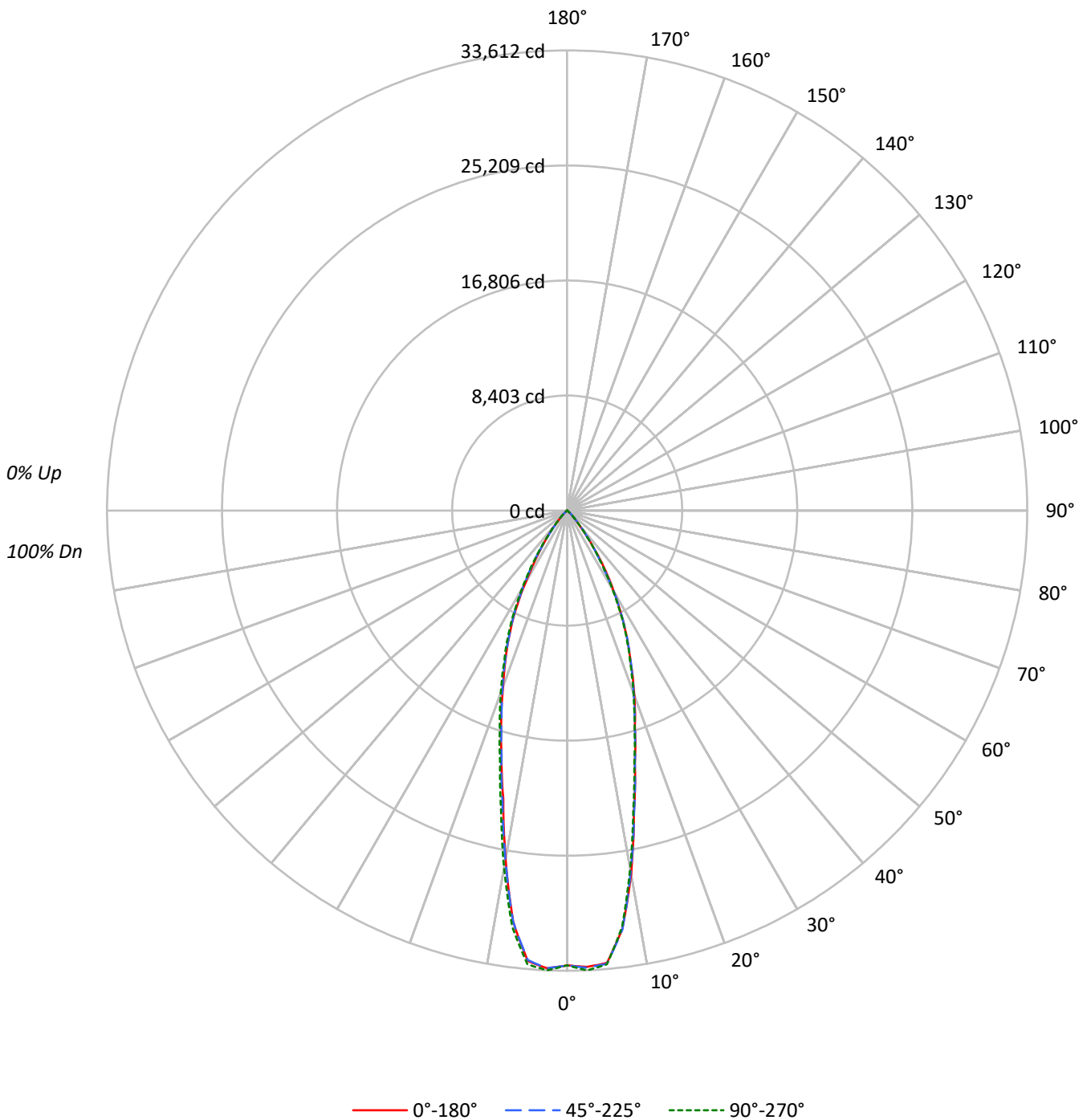
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1024299	1024299	1024299
5°	1027017	1029725	1022411
10°	843301	829966	809300
15°	611046	604831	590906
20°	471395	464970	449632
25°	353977	349761	338108
30°	241549	234801	216453
35°	136543	130704	119652
40°	54943	57120	54983
45°	22655	23244	21521
50°	6894	6793	4946
55°	1957	1457	1005
60°	1542	1412	382
65°	686	1445	306
70°	379	748	0
75°	2109	1239	870
80°	1669	746	2042
85°	2194	4069	5519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2936.1	18.8
10°-20°	5320.6	34.1
20°-30°	4635.9	29.7
30°-40°	2208.2	14.1
40°-50°	458.8	2.9
50°-60°	36.5	0.2
60°-70°	14.1	0.1
70°-80°	6.3	0.0
80°-90°	6.5	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°	12892.6	82.5
0°-40°	15100.8	96.7
0°-60°	15596.1	99.8
0°-90°	15623.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15623.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	33217	33217	33217	33217	33217	
5°	33179	33232	33266	32954	33030	###
15°	19141	19143	18946	18553	18510	5405
25°	10404	10393	10280	9971	9937	4730
35°	3627	3504	3472	3296	3178	2322
45°	520	575	533	478	494	459
55°	36	28	27	25	19	40
65°	9	16	20	6	4	14
75°	18	12	10	12	7	8
85°	6	6	12	7	16	6
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°	33217.3	33217.3	33217.3	33217.3	33217.3	33217.3	33217.3	33217.3	33217.3
2.5°	33362.0	33368.2	33420.3	33569.1	33611.8	33578.5	33466.1	33425.5	33466.1
5°	33178.7	33156.9	33231.8	33342.2	33266.2	33129.8	32953.9	32913.3	33029.9
7.5°	30830.0	30815.4	30886.2	30877.9	30677.0	30419.8	30273.0	30157.5	30257.4
10°	26932.2	26802.0	26755.2	26837.4	26506.3	26151.3	25940.0	26018.1	25846.3
12.5°	22543.9	22526.2	22609.5	22508.5	22317.0	22099.4	21840.1	21700.6	21575.7
15°	19140.6	19187.4	19142.7	19101.0	18945.9	18782.4	18553.4	18456.6	18509.7
17.5°	16469.1	16455.6	16408.7	16478.5	16358.8	16124.5	15923.6	15957.9	16016.2
20°	14365.1	14307.8	14197.4	14226.6	14169.3	13987.1	13803.9	13681.1	13701.9
22.5°	12196.5	12246.4	12232.9	12146.5	12057.0	11923.7	11834.2	11673.8	11748.8
25°	10403.7	10412.0	10393.3	10380.8	10279.8	10151.7	9970.6	9932.1	9937.3
27.5°	8569.3	8608.8	8593.2	8540.1	8438.1	8330.9	8218.4	8129.9	8121.6
30°	6783.8	6840.0	6728.6	6652.6	6594.3	6575.6	6387.1	6254.9	6079.0
32.5°	5249.2	5165.9	4810.9	4812.0	4925.4	4970.2	4790.1	4490.3	4441.3
35°	3627.2	3612.6	3504.3	3471.0	3472.1	3428.3	3296.1	3179.5	3178.5
37.5°	2273.8	2327.9	2388.3	2374.7	2241.5	2106.1	2042.6	2111.3	2131.1
40°	1364.9	1435.7	1508.6	1516.9	1419.0	1262.9	1243.1	1306.6	1365.9
42.5°	854.7	884.9	933.9	943.2	873.5	816.2	779.8	825.6	825.6
45°	519.5	547.6	574.7	576.8	533.0	485.2	477.9	495.6	493.5
47.5°	306.1	307.1	317.5	310.2	295.7	272.8	263.4	272.8	274.8
50°	143.7	140.5	145.8	159.3	141.6	119.7	121.8	114.5	103.1
52.5°	34.4	31.2	37.5	40.6	39.6	41.6	39.6	39.6	30.2
55°	36.4	22.9	28.1	29.2	27.1	29.2	25.0	16.7	18.7
57.5°	25.0	26.0	26.0	29.2	25.0	31.2	26.0	18.7	20.8
60°	25.0	17.7	16.7	28.1	22.9	15.6	17.7	23.9	6.2
62.5°	18.7	17.7	19.8	28.1	19.8	22.9	17.7	28.1	18.7
65°	9.4	15.6	15.6	15.6	19.8	17.7	6.2	12.5	4.2
67.5°	13.5	7.3	6.2	13.5	16.7	11.5	5.2	5.2	9.4
70°	4.2	6.2	3.1	7.3	8.3	7.3	5.2	1.0	0.0
72.5°	7.3	3.1	7.3	6.2	10.4	7.3	6.2	5.2	4.2
75°	17.7	13.5	11.5	12.5	10.4	6.2	12.5	12.5	7.3
77.5°	0.0	0.0	2.1	0.0	0.0	0.0	1.0	0.0	0.0
80°	9.4	7.3	7.3	7.3	4.2	6.2	3.1	1.0	11.5
82.5°	9.4	11.5	11.5	5.2	13.5	8.3	7.3	2.1	11.5
85°	6.2	11.5	6.2	5.2	11.5	9.4	7.3	3.1	15.6
87.5°	0.0	6.2	6.2	4.2	6.2	2.1	5.2	3.1	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)