

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: P247803

Luminaire Tested: **LD8B175D010 ER8B175827 8LBNOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247803
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 ER8B175827 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: 15894.0 lumens
Efficiency: N/A
Efficacy: 89.7 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

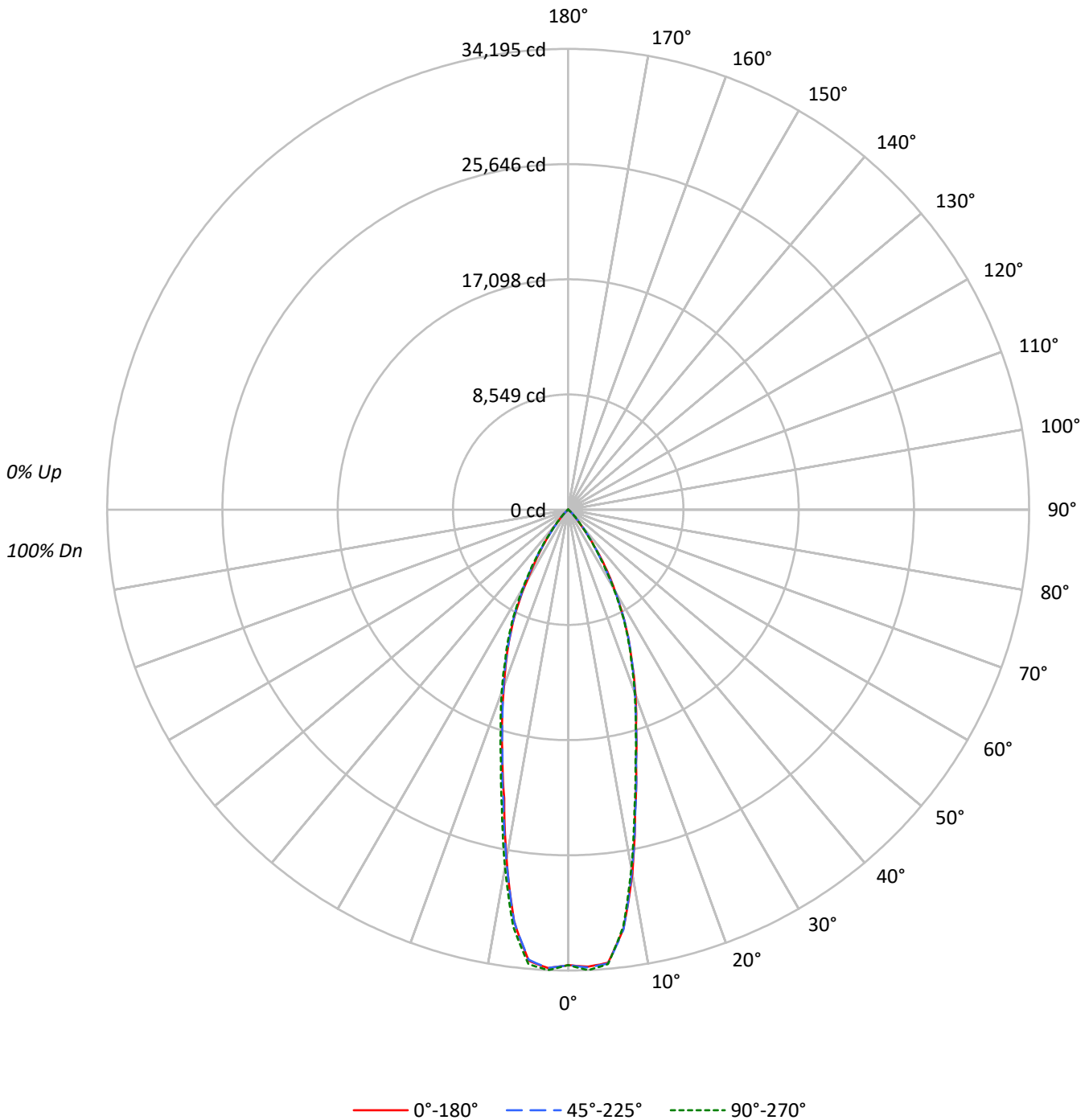
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1042067	1042067	1042067
5°	1044834	1047586	1040145
10°	857927	844363	823337
15°	621645	615321	601153
20°	479570	473036	457432
25°	360118	355828	343974
30°	245740	238875	220206
35°	138911	132971	121726
40°	55897	58111	55937
45°	23047	23649	21892
50°	7014	6908	5032
55°	1995	1478	1027
60°	1566	1437	395
65°	693	1467	306
70°	379	766	0
75°	2145	1263	882
80°	1687	746	2078
85°	2264	4140	5626



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2987.0	18.8
10°-20°	5412.9	34.1
20°-30°	4716.4	29.7
30°-40°	2246.5	14.1
40°-50°	466.8	2.9
50°-60°	37.1	0.2
60°-70°	14.4	0.1
70°-80°	6.4	0.0
80°-90°	6.7	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°	13116.3	82.5
0°-40°	15362.7	96.7
0°-60°	15866.6	99.8
0°-90°	15894.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15894.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	33794	33794	33794	33794	33794	
5°	33754	33808	33843	33526	33603	###
15°	19473	19475	19274	18875	18831	5499
25°	10584	10574	10458	10144	10110	4812
35°	3690	3565	3532	3353	3234	2362
45°	528	585	542	486	502	467
55°	37	29	28	25	19	40
65°	10	16	20	6	4	14
75°	18	12	11	13	7	9
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°	33793.5	33793.5	33793.5	33793.5	33793.5	33793.5	33793.5	33793.5	33793.5
2.5°	33940.7	33947.0	34000.0	34151.4	34194.9	34161.0	34046.6	34005.3	34046.6
5°	33754.3	33732.0	33808.3	33920.6	33843.2	33704.5	33525.5	33484.2	33602.8
7.5°	31364.8	31350.0	31422.0	31413.5	31209.1	30947.5	30798.2	30680.6	30782.3
10°	27399.3	27266.9	27219.3	27302.9	26966.1	26605.0	26389.9	26469.4	26294.6
12.5°	22935.0	22917.0	23001.7	22899.0	22704.1	22482.7	22219.0	22077.1	21950.0
15°	19472.6	19520.3	19474.7	19432.3	19274.5	19108.2	18875.2	18776.7	18830.7
17.5°	16754.8	16741.0	16693.4	16764.3	16642.5	16404.2	16199.8	16234.8	16294.1
20°	14614.2	14556.0	14443.7	14473.4	14415.1	14229.8	14043.4	13918.4	13939.6
22.5°	12408.0	12458.9	12445.1	12357.2	12266.1	12130.5	12039.4	11876.3	11952.6
25°	10584.2	10592.6	10573.6	10560.9	10458.1	10327.8	10143.5	10104.4	10109.7
27.5°	8717.9	8758.2	8742.3	8688.3	8584.5	8475.4	8361.0	8271.0	8262.5
30°	6901.5	6958.7	6845.3	6768.0	6708.7	6689.6	6497.9	6363.4	6184.4
32.5°	5340.3	5255.5	4894.4	4895.4	5010.9	5056.4	4873.2	4568.1	4518.4
35°	3690.1	3675.3	3565.1	3531.2	3532.3	3487.8	3353.3	3234.7	3233.6
37.5°	2313.2	2368.3	2429.7	2415.9	2280.4	2142.7	2078.1	2148.0	2168.1
40°	1388.6	1460.6	1534.7	1543.2	1443.6	1284.8	1264.6	1329.2	1389.6
42.5°	869.6	900.3	950.1	959.6	888.6	830.4	793.3	839.9	839.9
45°	528.5	557.1	584.7	586.8	542.3	493.6	486.2	504.2	502.0
47.5°	311.4	312.5	323.0	315.6	300.8	277.5	268.0	277.5	279.6
50°	146.2	143.0	148.3	162.1	144.0	121.8	123.9	116.5	104.9
52.5°	35.0	31.8	38.1	41.3	40.2	42.4	40.2	40.2	30.7
55°	37.1	23.3	28.6	29.7	27.5	29.7	25.4	16.9	19.1
57.5°	25.4	26.5	26.5	29.7	25.4	31.8	26.5	19.1	21.2
60°	25.4	18.0	16.9	28.6	23.3	15.9	18.0	24.4	6.4
62.5°	19.1	18.0	20.1	28.6	20.1	23.3	18.0	28.6	19.1
65°	9.5	15.9	15.9	15.9	20.1	18.0	6.4	12.7	4.2
67.5°	13.8	7.4	6.4	13.8	16.9	11.7	5.3	5.3	9.5
70°	4.2	6.4	3.2	7.4	8.5	7.4	5.3	1.1	0.0
72.5°	7.4	3.2	7.4	6.4	10.6	7.4	6.4	5.3	4.2
75°	18.0	13.8	11.7	12.7	10.6	6.4	12.7	12.7	7.4
77.5°	0.0	0.0	2.1	0.0	0.0	0.0	1.1	0.0	0.0
80°	9.5	7.4	7.4	7.4	4.2	6.4	3.2	1.1	11.7
82.5°	9.5	11.7	11.7	5.3	13.8	8.5	7.4	2.1	11.7
85°	6.4	11.7	6.4	5.3	11.7	9.5	7.4	3.2	15.9
87.5°	0.0	6.4	6.4	4.2	6.4	2.1	5.3	3.2	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)