

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: P247809

Luminaire Tested: **LD8B175D010 ER8B175835 8LBNOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247809
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 ER8B175835 8LBNOLI
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16942.0 lumens
Efficiency: N/A
Efficacy: 95.6 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

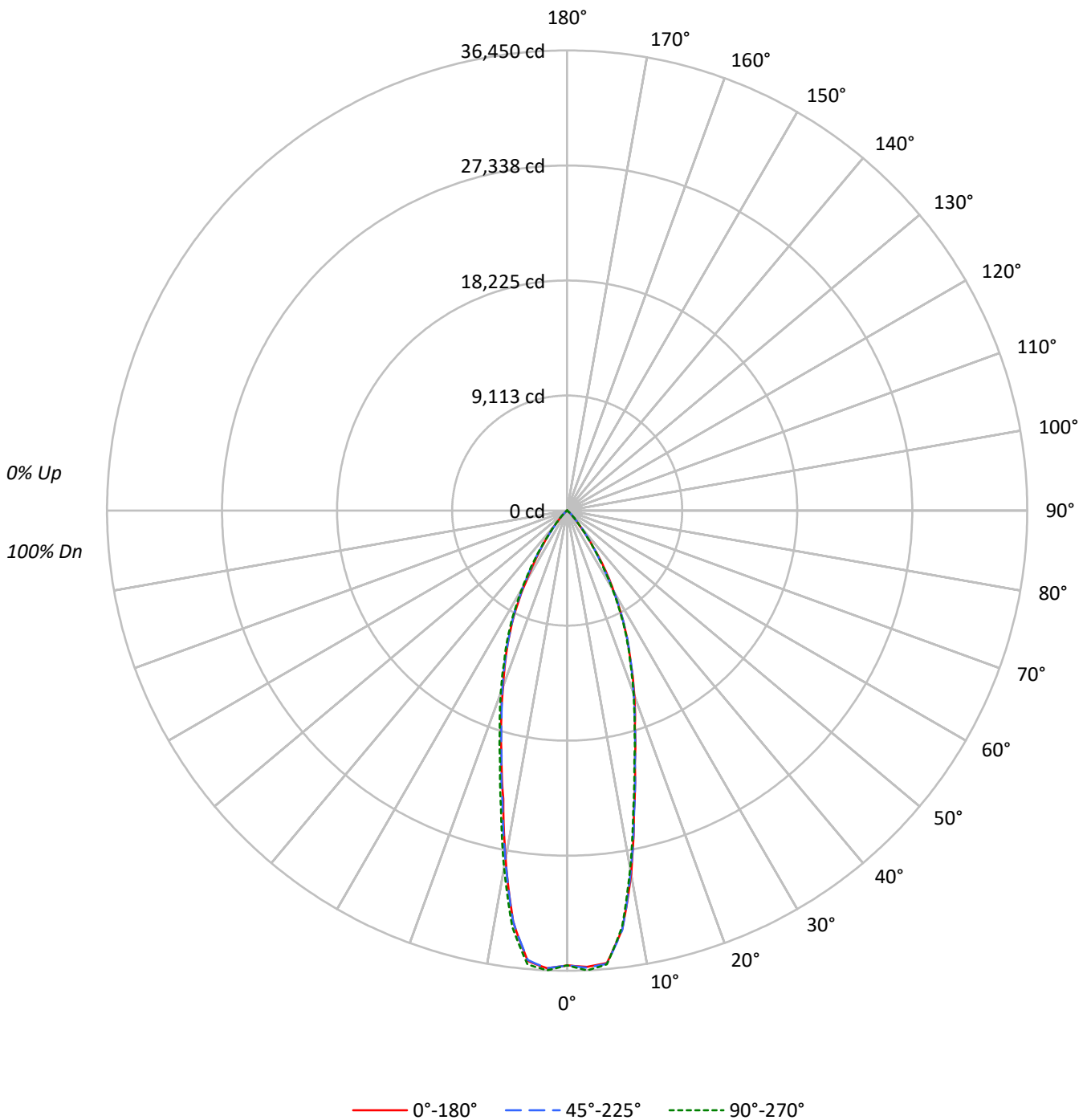
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1110776	1110776	1110776
5°	1113726	1116660	1108730
10°	914496	900039	877626
15°	662636	655893	640793
20°	511194	504227	487593
25°	383860	379291	366651
30°	261941	254624	234727
35°	148070	141738	129752
40°	59580	61943	59624
45°	24569	25206	23335
50°	7474	7364	5363
55°	2124	1581	1091
60°	1671	1529	419
65°	744	1569	328
70°	406	811	0
75°	2288	1346	941
80°	1811	799	2202
85°	2406	4387	5979



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3184.0	18.8
10°-20°	5769.8	34.1
20°-30°	5027.3	29.7
30°-40°	2394.6	14.1
40°-50°	497.6	2.9
50°-60°	39.5	0.2
60°-70°	15.3	0.1
70°-80°	6.8	0.0
80°-90°	7.1	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°	13981.1	82.5
0°-40°	16375.7	96.7
0°-60°	16912.8	99.8
0°-90°	16942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16942.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	36022	36022	36022	36022	36022	
5°	35980	36038	36075	35736	35818	###
15°	20757	20759	20545	20120	20072	5862
25°	11282	11271	11148	10812	10776	5129
35°	3933	3800	3765	3574	3447	2518
45°	563	623	578	518	535	498
55°	40	30	29	27	20	43
65°	10	17	22	7	4	15
75°	19	12	11	14	8	9
85°	7	7	12	8	17	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°	36021.7	36021.7	36021.7	36021.7	36021.7	36021.7	36021.7	36021.7	36021.7
2.5°	36178.6	36185.4	36241.8	36403.3	36449.6	36413.4	36291.5	36247.5	36291.5
5°	35979.9	35956.2	36037.5	36157.2	36074.7	35926.9	35736.1	35692.0	35818.5
7.5°	33432.9	33417.1	33493.9	33484.8	33266.9	32988.1	32828.9	32703.6	32812.0
10°	29205.9	29064.8	29014.0	29103.2	28744.2	28359.2	28130.0	28214.7	28028.4
12.5°	24447.2	24428.0	24518.4	24408.9	24201.1	23965.2	23684.0	23532.8	23397.3
15°	20756.6	20807.4	20758.8	20713.7	20545.4	20368.2	20119.8	20014.8	20072.4
17.5°	17859.6	17844.9	17794.1	17869.7	17739.9	17485.9	17268.0	17305.2	17368.4
20°	15577.9	15515.8	15396.1	15427.7	15365.6	15168.0	14969.3	14836.1	14858.7
22.5°	13226.2	13280.4	13265.7	13172.0	13074.9	12930.4	12833.3	12659.4	12740.7
25°	11282.0	11291.1	11270.7	11257.2	11147.7	11008.8	10812.4	10770.6	10776.2
27.5°	9292.8	9335.7	9318.7	9261.1	9150.5	9034.2	8912.3	8816.3	8807.3
30°	7356.5	7417.5	7296.7	7214.3	7151.0	7130.7	6926.4	6783.0	6592.2
32.5°	5692.4	5602.1	5217.1	5218.2	5341.3	5389.8	5194.5	4869.4	4816.3
35°	3933.4	3917.6	3800.2	3764.1	3765.2	3717.8	3574.4	3447.9	3446.8
37.5°	2465.7	2524.4	2589.9	2575.2	2430.7	2284.0	2215.1	2289.6	2311.1
40°	1480.1	1556.9	1635.9	1644.9	1538.8	1369.5	1348.0	1416.9	1481.2
42.5°	926.9	959.6	1012.7	1022.9	947.2	885.1	845.6	895.3	895.3
45°	563.4	593.9	623.2	625.5	578.0	526.1	518.2	537.4	535.1
47.5°	331.9	333.1	344.3	336.4	320.6	295.8	285.6	295.8	298.1
50°	155.8	152.4	158.1	172.7	153.5	129.8	132.1	124.2	111.8
52.5°	37.3	33.9	40.6	44.0	42.9	45.2	42.9	42.9	32.7
55°	39.5	24.8	30.5	31.6	29.4	31.6	27.1	18.1	20.3
57.5°	27.1	28.2	28.2	31.6	27.1	33.9	28.2	20.3	22.6
60°	27.1	19.2	18.1	30.5	24.8	16.9	19.2	26.0	6.8
62.5°	20.3	19.2	21.5	30.5	21.5	24.8	19.2	30.5	20.3
65°	10.2	16.9	16.9	16.9	21.5	19.2	6.8	13.5	4.5
67.5°	14.7	7.9	6.8	14.7	18.1	12.4	5.6	5.6	10.2
70°	4.5	6.8	3.4	7.9	9.0	7.9	5.6	1.1	0.0
72.5°	7.9	3.4	7.9	6.8	11.3	7.9	6.8	5.6	4.5
75°	19.2	14.7	12.4	13.5	11.3	6.8	13.5	13.5	7.9
77.5°	0.0	0.0	2.3	0.0	0.0	0.0	1.1	0.0	0.0
80°	10.2	7.9	7.9	7.9	4.5	6.8	3.4	1.1	12.4
82.5°	10.2	12.4	12.4	5.6	14.7	9.0	7.9	2.3	12.4
85°	6.8	12.4	6.8	5.6	12.4	10.2	7.9	3.4	16.9
87.5°	0.0	6.8	6.8	4.5	6.8	2.3	5.6	3.4	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)