

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: P247829

Luminaire Tested: **LD8B150D010 ER8B150950 8LBNOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247829  
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: LD8B150D010 ER8B150950 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: 13838.0 lumens  
Efficiency: N/A  
Efficacy: 87.3 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

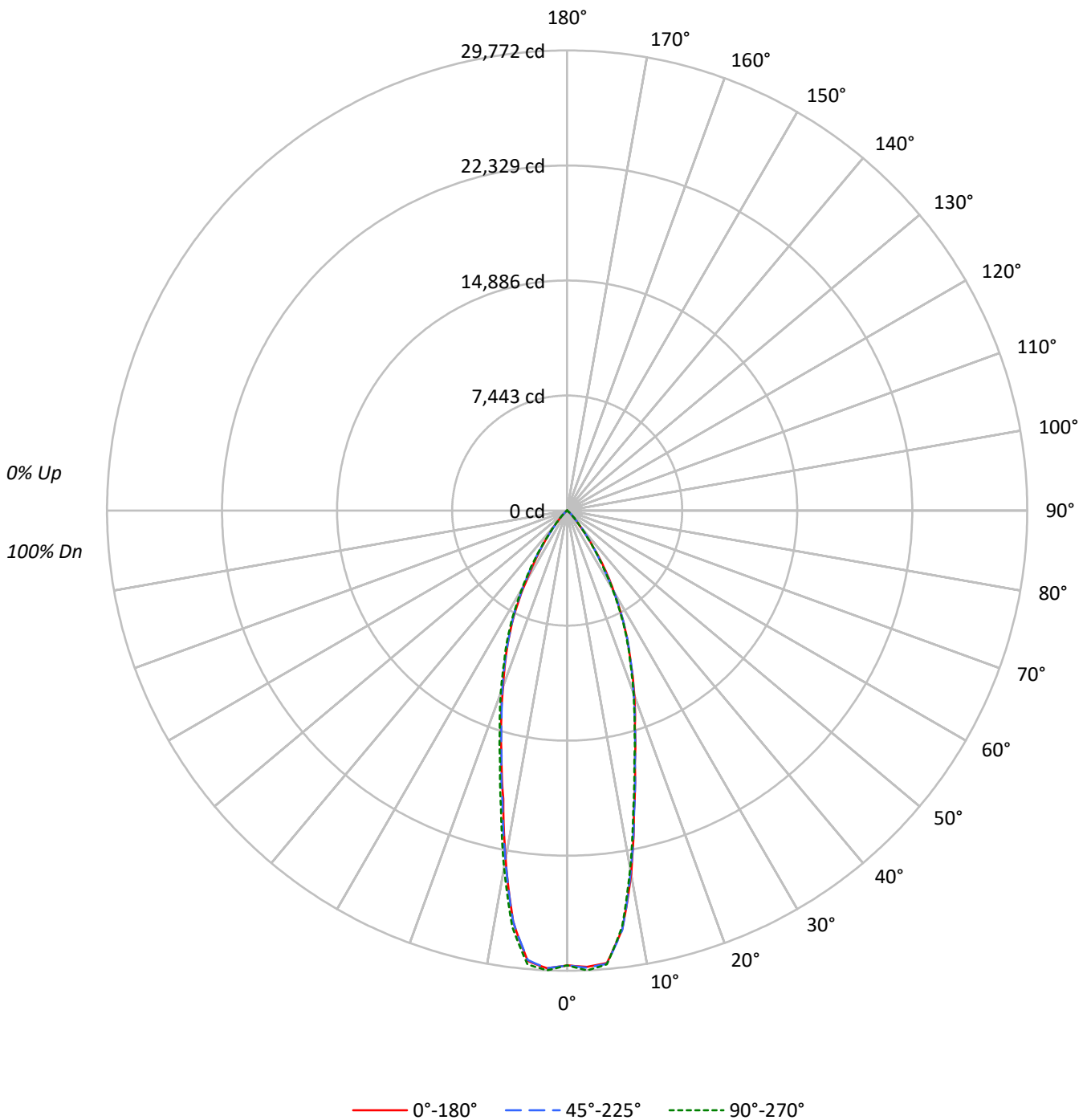
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	907266	907266	907266
5°	909676	912075	905593
10°	746948	735140	716832
15°	541232	535725	523392
20°	417536	411845	398260
25°	313532	309800	299477
30°	213950	207975	191721
35°	120943	115771	105980
40°	48663	50595	48703
45°	20069	20588	19062
50°	6107	6016	4380
55°	1736	1290	892
60°	1363	1252	339
65°	606	1277	270
70°	334	667	0
75°	1871	1096	774
80°	1474	657	1794
85°	1946	3573	4883



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2600.6	18.8
10°-20°	4712.7	34.1
20°-30°	4106.3	29.7
30°-40°	1955.9	14.1
40°-50°	406.4	2.9
50°-60°	32.3	0.2
60°-70°	12.5	0.1
70°-80°	5.6	0.0
80°-90°	5.8	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°	11419.6	82.5
0°-40°	13375.5	96.7
0°-60°	13814.2	99.8
0°-90°	13838.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13838.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	29422	29422	29422	29422	29422	
5°	29388	29435	29465	29189	29256	###
15°	16954	16956	16781	16434	16395	4788
25°	9215	9206	9105	8831	8802	4189
35°	3213	3104	3075	2920	2815	2057
45°	460	509	472	423	437	407
55°	32	25	24	22	17	35
65°	8	14	18	6	4	12
75°	16	10	9	11	6	7
85°	6	6	10	6	14	5
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°	29422.0	29422.0	29422.0	29422.0	29422.0	29422.0	29422.0	29422.0	29422.0
2.5°	29550.2	29555.7	29601.9	29733.7	29771.5	29742.0	29642.4	29606.5	29642.4
5°	29387.9	29368.5	29434.9	29532.7	29465.4	29344.6	29188.7	29152.8	29256.0
7.5°	27307.5	27294.6	27357.3	27350.0	27172.0	26944.2	26814.2	26711.8	26800.4
10°	23855.0	23739.8	23698.3	23771.1	23477.9	23163.4	22976.2	23045.4	22893.2
12.5°	19968.2	19952.5	20026.3	19936.8	19767.2	19574.4	19344.8	19221.2	19110.6
15°	16953.7	16995.2	16955.5	16918.6	16781.2	16636.5	16433.6	16347.8	16394.9
17.5°	14587.4	14575.5	14534.0	14595.7	14489.7	14282.2	14104.2	14134.7	14186.3
20°	12723.8	12673.1	12575.3	12601.1	12550.4	12389.0	12226.8	12117.9	12136.4
22.5°	10803.0	10847.2	10835.2	10758.7	10679.4	10561.4	10482.0	10340.0	10406.4
25°	9215.0	9222.4	9205.8	9194.7	9105.3	8991.9	8831.4	8797.3	8801.9
27.5°	7590.2	7625.2	7611.4	7564.4	7474.0	7379.0	7279.4	7201.0	7193.7
30°	6008.7	6058.5	5959.8	5892.5	5840.9	5824.3	5657.4	5540.3	5384.4
32.5°	4649.5	4575.7	4261.2	4262.2	4362.7	4402.3	4242.8	3977.2	3933.9
35°	3212.8	3199.9	3103.9	3074.4	3075.4	3036.6	2919.5	2816.2	2815.3
37.5°	2014.0	2061.9	2115.4	2103.4	1985.4	1865.5	1809.3	1870.1	1887.6
40°	1208.9	1271.6	1336.2	1343.6	1256.9	1118.6	1101.0	1157.3	1209.9
42.5°	757.1	783.8	827.2	835.5	773.7	723.0	690.7	731.3	731.3
45°	460.2	485.0	509.0	510.9	472.1	429.7	423.3	438.9	437.1
47.5°	271.1	272.0	281.3	274.8	261.9	241.6	233.3	241.6	243.4
50°	127.3	124.5	129.1	141.1	125.4	106.0	107.9	101.4	91.3
52.5°	30.4	27.7	33.2	36.0	35.0	36.9	35.0	35.0	26.7
55°	32.3	20.3	24.9	25.8	24.0	25.8	22.1	14.8	16.6
57.5°	22.1	23.1	23.1	25.8	22.1	27.7	23.1	16.6	18.4
60°	22.1	15.7	14.8	24.9	20.3	13.8	15.7	21.2	5.5
62.5°	16.6	15.7	17.5	24.9	17.5	20.3	15.7	24.9	16.6
65°	8.3	13.8	13.8	13.8	17.5	15.7	5.5	11.1	3.7
67.5°	12.0	6.5	5.5	12.0	14.8	10.1	4.6	4.6	8.3
70°	3.7	5.5	2.8	6.5	7.4	6.5	4.6	0.9	0.0
72.5°	6.5	2.8	6.5	5.5	9.2	6.5	5.5	4.6	3.7
75°	15.7	12.0	10.1	11.1	9.2	5.5	11.1	11.1	6.5
77.5°	0.0	0.0	1.8	0.0	0.0	0.0	0.9	0.0	0.0
80°	8.3	6.5	6.5	6.5	3.7	5.5	2.8	0.9	10.1
82.5°	8.3	10.1	10.1	4.6	12.0	7.4	6.5	1.8	10.1
85°	5.5	10.1	5.5	4.6	10.1	8.3	6.5	2.8	13.8
87.5°	0.0	5.5	5.5	3.7	5.5	1.8	4.6	2.8	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)