

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: P247826

Luminaire Tested: **LD8B150D010 ER8B150940 8LBNOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247826  
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 ER8B150940 8LBNOLI  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13366.0 lumens  
Efficiency: N/A  
Efficacy: 84.3 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

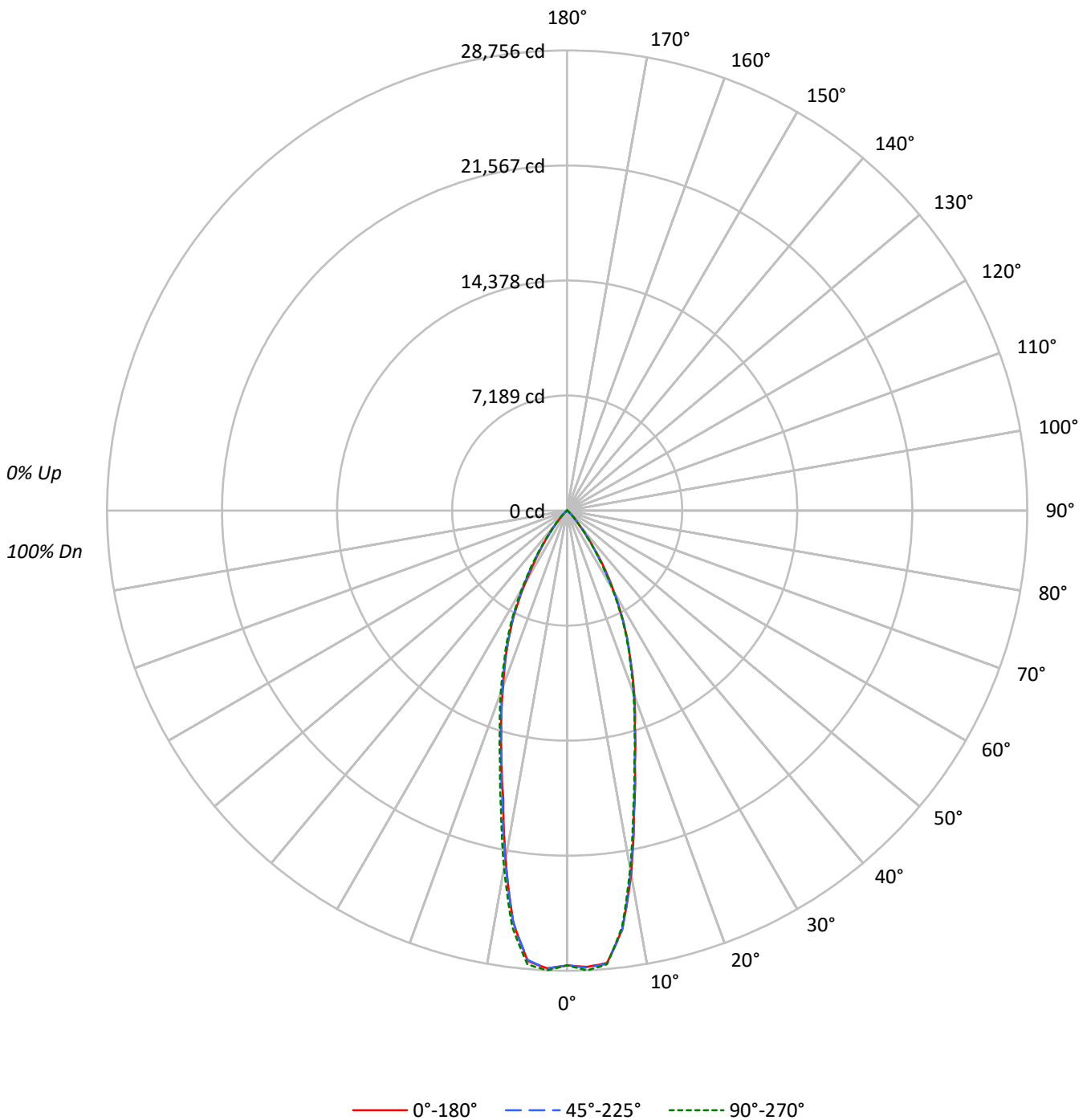
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	876322	876322	876322
5°	878648	880963	874707
10°	721473	710066	692384
15°	522770	517451	505537
20°	403294	397797	384674
25°	302838	299232	289263
30°	206654	200882	185183
35°	116817	111822	102366
40°	47005	48868	47041
45°	19384	19886	18412
50°	5896	5810	4231
55°	1677	1247	860
60°	1320	1209	327
65°	584	1233	263
70°	325	640	0
75°	1799	1060	739
80°	1421	639	1740
85°	1875	3467	4741



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2511.9	18.8
10°-20°	4551.9	34.1
20°-30°	3966.2	29.7
30°-40°	1889.2	14.1
40°-50°	392.5	2.9
50°-60°	31.2	0.2
60°-70°	12.1	0.1
70°-80°	5.4	0.0
80°-90°	5.6	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°	11030.1	82.5
0°-40°	12919.2	96.7
0°-60°	13343.0	99.8
0°-90°	13366.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13366.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	28418	28418	28418	28418	28418	
5°	28386	28431	28460	28193	28258	###
15°	16375	16377	16209	15873	15836	4624
25°	8901	8892	8795	8530	8502	4046
35°	3103	2998	2970	2820	2719	1987
45°	444	492	456	409	422	393
55°	31	24	23	21	16	34
65°	8	13	17	5	4	12
75°	15	10	9	11	6	7
85°	5	5	10	6	13	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°	28418.5	28418.5	28418.5	28418.5	28418.5	28418.5	28418.5	28418.5	28418.5
2.5°	28542.3	28547.6	28592.2	28719.5	28756.1	28727.5	28631.4	28596.6	28631.4
5°	28385.5	28366.8	28430.9	28525.4	28460.3	28343.7	28193.1	28158.4	28258.2
7.5°	26376.1	26363.6	26424.2	26417.1	26245.2	26025.2	25899.6	25800.7	25886.2
10°	23041.4	22930.0	22889.9	22960.3	22677.1	22373.3	22192.5	22259.3	22112.4
12.5°	19287.1	19271.9	19343.2	19256.8	19092.9	18906.8	18685.0	18565.6	18458.7
15°	16375.4	16415.5	16377.2	16341.6	16208.8	16069.0	15873.1	15790.2	15835.6
17.5°	14089.9	14078.3	14038.2	14097.9	13995.5	13795.1	13623.2	13652.6	13702.4
20°	12289.8	12240.8	12146.4	12171.3	12122.3	11966.5	11809.7	11704.6	11722.4
22.5°	10434.5	10477.2	10465.7	10391.7	10315.1	10201.1	10124.5	9987.4	10051.5
25°	8900.7	8907.8	8891.8	8881.1	8794.7	8685.2	8530.2	8497.2	8501.7
27.5°	7331.3	7365.1	7351.8	7306.4	7219.1	7127.3	7031.1	6955.4	6948.3
30°	5803.8	5851.9	5756.6	5691.5	5641.7	5625.6	5464.4	5351.3	5200.8
32.5°	4490.9	4419.6	4115.9	4116.8	4213.9	4252.2	4098.1	3841.6	3799.7
35°	3103.2	3090.7	2998.1	2969.6	2970.5	2933.1	2819.9	2720.2	2719.3
37.5°	1945.3	1991.6	2043.3	2031.7	1917.7	1801.9	1747.5	1806.3	1823.3
40°	1167.7	1228.3	1290.6	1297.7	1214.0	1080.4	1063.5	1117.8	1168.6
42.5°	731.3	757.1	799.0	807.0	747.3	698.3	667.1	706.3	706.3
45°	444.5	468.5	491.7	493.4	456.0	415.1	408.8	424.0	422.2
47.5°	261.9	262.8	271.7	265.4	253.0	233.4	225.3	233.4	235.1
50°	122.9	120.2	124.7	136.3	121.1	102.4	104.2	98.0	88.2
52.5°	29.4	26.7	32.1	34.7	33.8	35.6	33.8	33.8	25.8
55°	31.2	19.6	24.0	24.9	23.2	24.9	21.4	14.3	16.0
57.5°	21.4	22.3	22.3	24.9	21.4	26.7	22.3	16.0	17.8
60°	21.4	15.1	14.3	24.0	19.6	13.4	15.1	20.5	5.3
62.5°	16.0	15.1	16.9	24.0	16.9	19.6	15.1	24.0	16.0
65°	8.0	13.4	13.4	13.4	16.9	15.1	5.3	10.7	3.6
67.5°	11.6	6.2	5.3	11.6	14.3	9.8	4.5	4.5	8.0
70°	3.6	5.3	2.7	6.2	7.1	6.2	4.5	0.9	0.0
72.5°	6.2	2.7	6.2	5.3	8.9	6.2	5.3	4.5	3.6
75°	15.1	11.6	9.8	10.7	8.9	5.3	10.7	10.7	6.2
77.5°	0.0	0.0	1.8	0.0	0.0	0.0	0.9	0.0	0.0
80°	8.0	6.2	6.2	6.2	3.6	5.3	2.7	0.9	9.8
82.5°	8.0	9.8	9.8	4.5	11.6	7.1	6.2	1.8	9.8
85°	5.3	9.8	5.3	4.5	9.8	8.0	6.2	2.7	13.4
87.5°	0.0	5.3	5.3	3.6	5.3	1.8	4.5	2.7	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)