

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: P247834

Luminaire Tested: **LD8B200D010 ER8B200927 8LBNOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247834  
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: LD8B200D010 ER8B200927 8LBNOLI  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15643.2 lumens  
Efficiency: N/A  
Efficacy: 70.1 lumens/watt  
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.63  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

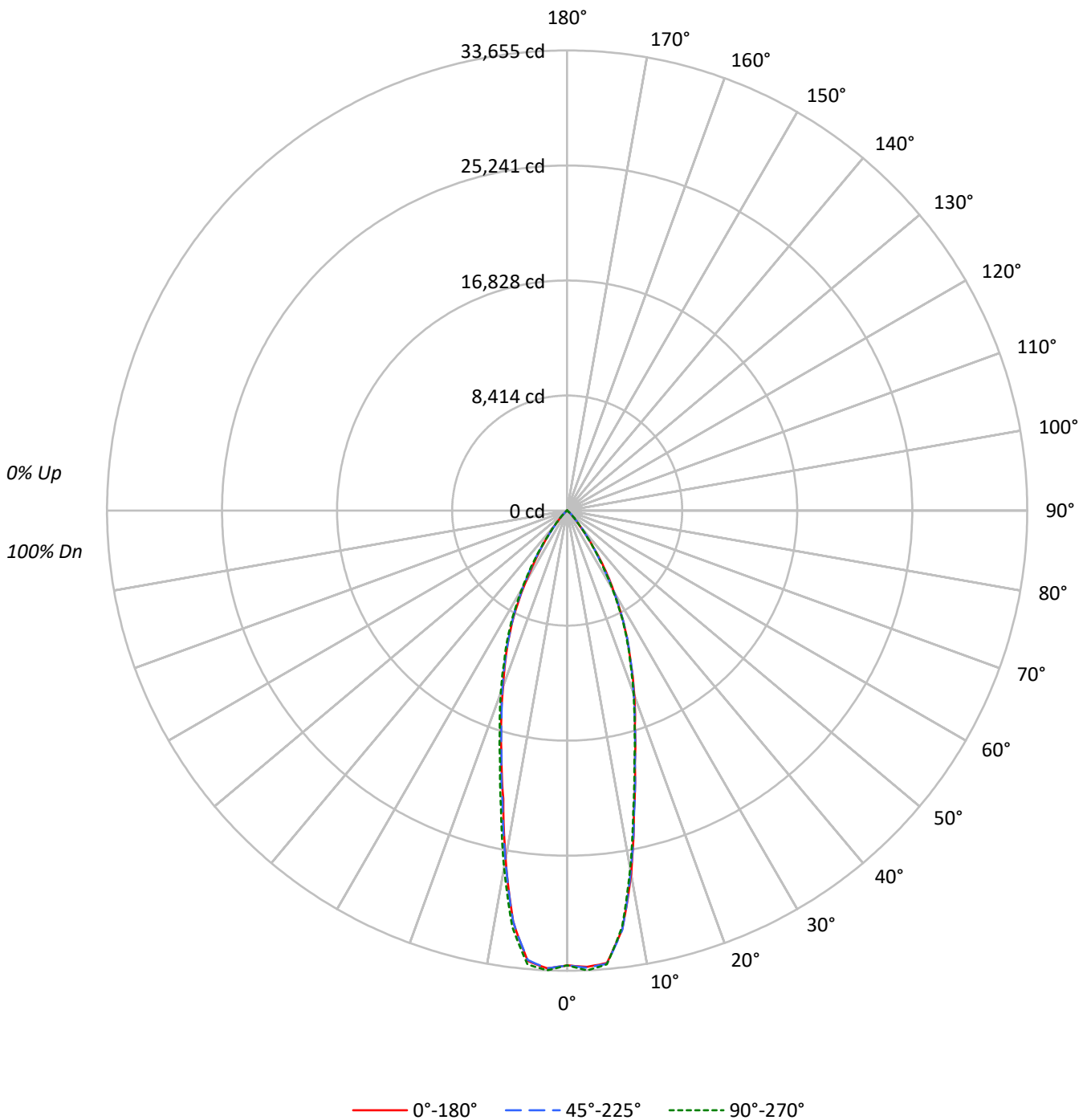
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	90	88	86	85
4	100	94	89	85	98	92	88	84	90	87	83	88	85	83	87	84	82	80
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	67	65
9	81	73	68	64	80	72	67	64	72	67	64	71	67	64	70	66	63	62
10	78	70	65	61	77	69	64	61	69	64	61	68	64	61	67	63	61	60

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2939.9	18.8
10°-20°	5327.4	34.1
20°-30°	4641.9	29.7
30°-40°	2211.0	14.1
40°-50°	459.4	2.9
50°-60°	36.5	0.2
60°-70°	14.2	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°	12909.2	82.5
0°-40°	15120.3	96.7
0°-60°	15616.2	99.8
0°-90°	15643.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15643.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	33260	33260	33260	33260	33260	
5°	33222	33275	33309	32996	33072	###
15°	19165	19167	18970	18577	18534	5412
25°	10417	10407	10293	9984	9950	4736
35°	3632	3509	3477	3300	3182	2325
45°	520	575	534	478	494	460
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°	33260.1	33260.1	33260.1	33260.1	33260.1	33260.1	33260.1	33260.1	33260.1
2.5°	33405.0	33411.2	33463.4	33612.4	33655.2	33621.8	33509.1	33468.5	33509.1
5°	33221.5	33199.5	33274.7	33385.2	33309.0	33172.5	32996.4	32955.6	33072.4
7.5°	30869.8	30855.2	30926.0	30917.7	30716.6	30459.0	30312.0	30196.4	30296.4
10°	26966.8	26836.5	26789.6	26872.0	26540.4	26185.0	25973.4	26051.6	25879.6
12.5°	22573.0	22555.2	22638.6	22537.6	22345.8	22127.9	21868.3	21728.6	21603.5
15°	19165.3	19212.2	19167.3	19125.7	18970.3	18806.6	18577.4	18480.4	18533.5
17.5°	16490.4	16476.8	16429.8	16499.7	16379.9	16145.3	15944.1	15978.5	16036.9
20°	14383.6	14326.2	14215.7	14245.0	14187.6	14005.1	13821.8	13698.7	13719.5
22.5°	12212.2	12262.2	12248.7	12162.2	12072.5	11939.1	11849.4	11688.9	11763.9
25°	10417.1	10425.4	10406.7	10394.1	10293.1	10164.8	9983.5	9944.9	9950.1
27.5°	8580.3	8620.0	8604.3	8551.1	8449.0	8341.6	8229.0	8140.4	8132.1
30°	6792.5	6848.8	6737.3	6661.2	6602.8	6584.1	6395.4	6263.0	6086.8
32.5°	5256.0	5172.5	4817.1	4818.2	4931.8	4976.6	4796.2	4496.1	4447.0
35°	3631.8	3617.2	3508.9	3475.5	3476.6	3432.7	3300.4	3183.6	3182.5
37.5°	2276.7	2330.9	2391.3	2377.8	2244.4	2108.8	2045.2	2114.1	2133.9
40°	1366.6	1437.5	1510.5	1518.9	1420.9	1264.5	1244.7	1308.3	1367.7
42.5°	855.8	886.0	935.1	944.4	874.6	817.3	780.8	826.6	826.6
45°	520.2	548.3	575.4	577.5	533.7	485.8	478.5	496.2	494.1
47.5°	306.4	307.6	317.9	310.6	296.1	273.2	263.7	273.2	275.2
50°	143.9	140.7	145.9	159.5	141.8	119.9	122.0	114.6	103.2
52.5°	34.4	31.3	37.6	40.6	39.6	41.7	39.6	39.6	30.3
55°	36.4	23.0	28.1	29.1	27.1	29.1	25.0	16.7	18.8
57.5°	25.0	26.1	26.1	29.1	25.0	31.3	26.1	18.8	20.8
60°	25.0	17.8	16.7	28.1	23.0	15.6	17.8	24.0	6.3
62.5°	18.8	17.8	19.8	28.1	19.8	23.0	17.8	28.1	18.8
65°	9.3	15.6	15.6	15.6	19.8	17.8	6.3	12.5	4.2
67.5°	13.5	7.3	6.3	13.5	16.7	11.5	5.2	5.2	9.3
70°	4.2	6.3	3.2	7.3	8.3	7.3	5.2	1.0	0.0
72.5°	7.3	3.2	7.3	6.3	10.5	7.3	6.3	5.2	4.2
75°	17.8	13.5	11.5	12.5	10.5	6.3	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°	9.3	7.3	7.3	7.3	4.2	6.3	3.2	1.0	11.5
82.5°	9.3	11.5	11.5	5.2	13.5	8.3	7.3	2.1	11.5
85°	6.3	11.5	6.3	5.2	11.5	9.3	7.3	3.2	15.6
87.5°	0.0	6.3	6.3	4.2	6.3	2.1	5.2	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)