

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: P247831

Luminaire Tested: **LD8B200D010 ER8B200950 8LBNOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247831  
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 ER8B200950 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: 18416.0 lumens  
Efficiency: N/A  
Efficacy: 82.5 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

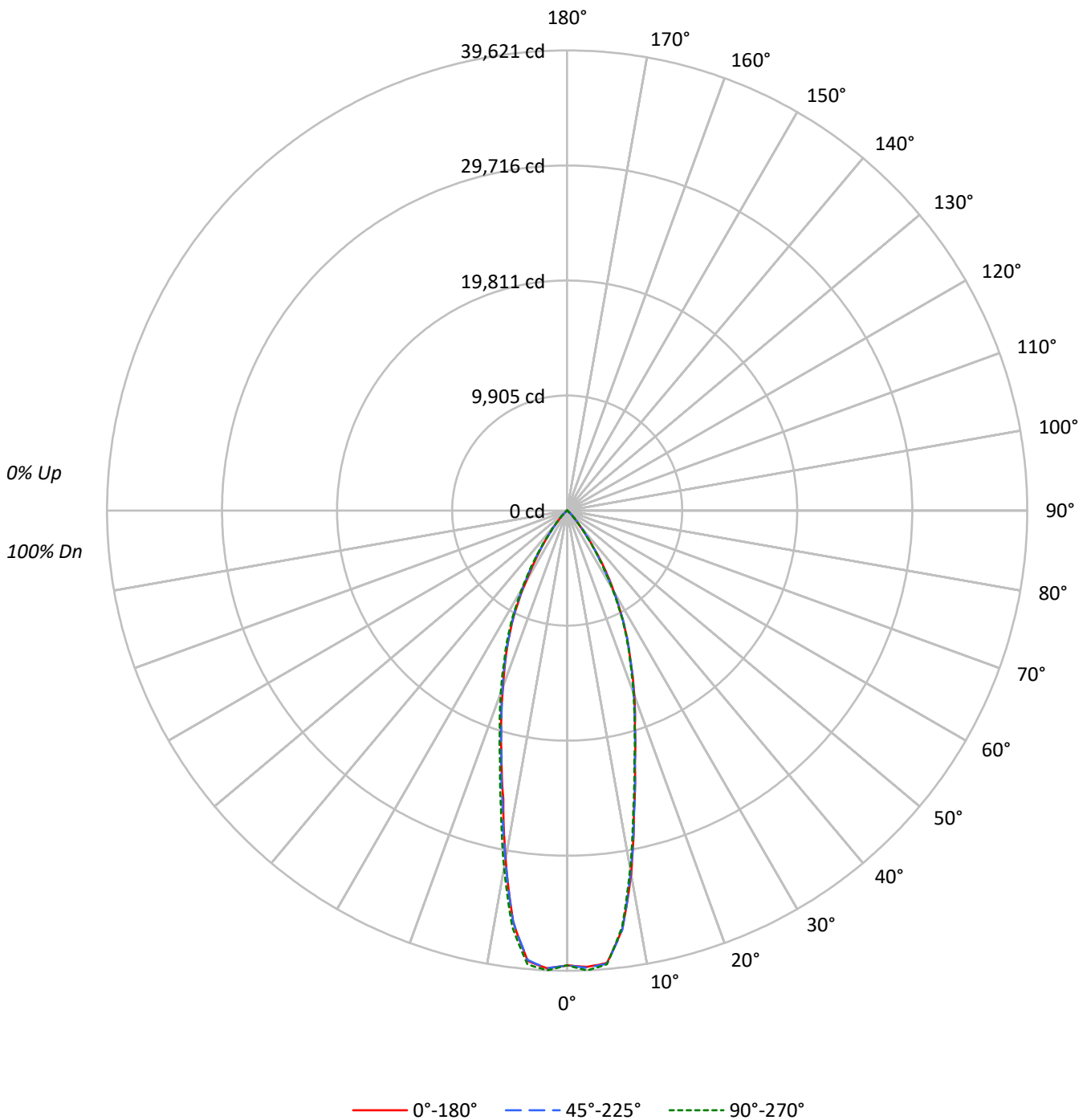
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1207417	1207417	1207417
5°	1210624	1213813	1205192
10°	994059	978344	953983
15°	720284	712958	696542
20°	555668	548098	530013
25°	417258	412291	398552
30°	284733	276778	255147
35°	160951	154070	141041
40°	64765	67333	64813
45°	26706	27400	25367
50°	8127	8007	5829
55°	2312	1715	1188
60°	1819	1665	456
65°	803	1700	358
70°	442	884	0
75°	2490	1465	1025
80°	1953	870	2397
85°	2618	4776	6510



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3461.0	18.8
10°-20°	6271.8	34.1
20°-30°	5464.7	29.7
30°-40°	2602.9	14.1
40°-50°	540.8	2.9
50°-60°	43.0	0.2
60°-70°	16.6	0.1
70°-80°	7.4	0.0
80°-90°	7.7	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°	15197.5	82.5
0°-40°	17800.4	96.7
0°-60°	18384.3	99.8
0°-90°	18416.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18416.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	39156	39156	39156	39156	39156	
5°	39110	39173	39213	38845	38935	###
15°	22562	22565	22333	21870	21819	6372
25°	12264	12251	12118	11753	11714	5575
35°	4276	4131	4093	3885	3747	2737
45°	612	677	628	563	582	541
55°	43	33	32	30	22	47
65°	11	18	23	7	5	16
75°	21	14	12	15	9	10
85°	7	7	14	9	18	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°	39155.7	39155.7	39155.7	39155.7	39155.7	39155.7	39155.7	39155.7	39155.7
2.5°	39326.3	39333.6	39395.0	39570.5	39620.8	39581.5	39449.0	39401.1	39449.0
5°	39110.3	39084.5	39172.9	39302.9	39213.3	39052.6	38845.2	38797.3	38934.8
7.5°	36341.7	36324.5	36407.9	36398.1	36161.3	35858.1	35685.1	35548.9	35666.7
10°	31746.9	31593.5	31538.3	31635.3	31245.0	30826.5	30577.4	30669.4	30467.0
12.5°	26574.2	26553.4	26651.5	26532.5	26306.7	26050.2	25744.6	25580.2	25432.9
15°	22562.4	22617.7	22564.9	22515.8	22332.9	22140.3	21870.3	21756.2	21818.7
17.5°	19413.4	19397.4	19342.2	19424.4	19283.3	19007.2	18770.3	18810.8	18879.5
20°	16933.2	16865.7	16735.6	16770.0	16702.5	16487.7	16271.7	16126.9	16151.4
22.5°	14376.9	14435.8	14419.8	14318.0	14212.4	14055.3	13949.8	13760.8	13849.2
25°	12263.6	12273.4	12251.3	12236.6	12117.6	11966.6	11753.1	11707.7	11713.8
27.5°	10101.2	10147.9	10129.5	10066.9	9946.6	9820.2	9687.7	9583.4	9573.5
30°	7996.6	8062.8	7931.5	7841.9	7773.2	7751.1	7529.0	7373.1	7165.7
32.5°	6187.6	6089.5	5671.0	5672.2	5806.0	5858.7	5646.4	5293.0	5235.3
35°	4275.6	4258.5	4130.8	4091.6	4092.8	4041.2	3885.4	3747.9	3746.7
37.5°	2680.2	2744.1	2815.2	2799.3	2642.2	2482.7	2407.8	2488.8	2512.1
40°	1608.9	1692.3	1778.2	1788.1	1672.7	1488.6	1465.3	1540.2	1610.1
42.5°	1007.5	1043.1	1100.8	1111.9	1029.6	962.1	919.2	973.2	973.2
45°	612.4	645.5	677.4	679.9	628.3	571.9	563.3	584.2	581.7
47.5°	360.8	362.0	374.3	365.7	348.5	321.5	310.5	321.5	324.0
50°	169.4	165.7	171.8	187.8	166.9	141.1	143.6	135.0	121.5
52.5°	40.5	36.8	44.2	47.9	46.6	49.1	46.6	46.6	35.6
55°	43.0	27.0	33.1	34.4	31.9	34.4	29.5	19.6	22.1
57.5°	29.5	30.7	30.7	34.4	29.5	36.8	30.7	22.1	24.5
60°	29.5	20.9	19.6	33.1	27.0	18.4	20.9	28.2	7.4
62.5°	22.1	20.9	23.3	33.1	23.3	27.0	20.9	33.1	22.1
65°	11.0	18.4	18.4	18.4	23.3	20.9	7.4	14.7	4.9
67.5°	16.0	8.6	7.4	16.0	19.6	13.5	6.1	6.1	11.0
70°	4.9	7.4	3.7	8.6	9.8	8.6	6.1	1.2	0.0
72.5°	8.6	3.7	8.6	7.4	12.3	8.6	7.4	6.1	4.9
75°	20.9	16.0	13.5	14.7	12.3	7.4	14.7	14.7	8.6
77.5°	0.0	0.0	2.5	0.0	0.0	0.0	1.2	0.0	0.0
80°	11.0	8.6	8.6	8.6	4.9	7.4	3.7	1.2	13.5
82.5°	11.0	13.5	13.5	6.1	16.0	9.8	8.6	2.5	13.5
85°	7.4	13.5	7.4	6.1	13.5	11.0	8.6	3.7	18.4
87.5°	0.0	7.4	7.4	4.9	7.4	2.5	6.1	3.7	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)