

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: P247810

Luminaire Tested: **LD8B200D010 ER8B200835 8LBNOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247810  
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 ER8B200835 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: 19971.0 lumens  
Efficiency: N/A  
Efficacy: 89.4 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

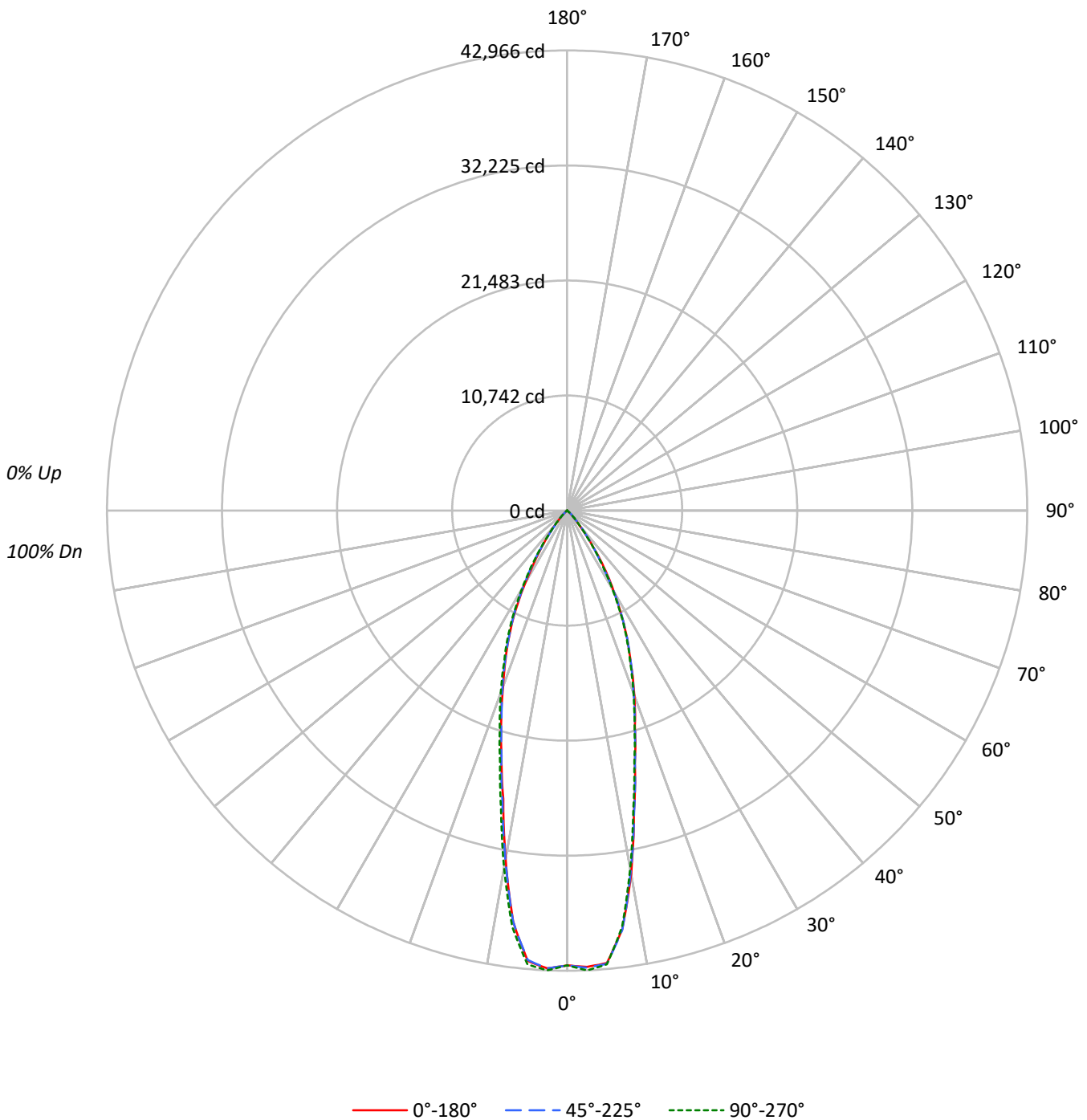
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1309368	1309368	1309368
5°	1312844	1316305	1306953
10°	1077997	1060954	1034533
15°	781103	773160	755359
20°	602588	594377	574767
25°	452490	447101	432205
30°	308774	300150	276693
35°	174545	167080	152952
40°	70231	73017	70287
45°	28961	29715	27509
50°	8813	8683	6323
55°	2505	1860	1290
60°	1967	1807	493
65°	876	1846	387
70°	478	956	0
75°	2693	1585	1108
80°	2131	941	2593
85°	2830	5166	7076



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3753.2	18.8
10°-20°	6801.3	34.1
20°-30°	5926.2	29.7
30°-40°	2822.7	14.1
40°-50°	586.5	2.9
50°-60°	46.6	0.2
60°-70°	18.1	0.1
70°-80°	8.0	0.0
80°-90°	8.3	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°	16480.7	82.5
0°-40°	19303.5	96.7
0°-60°	19936.6	99.8
0°-90°	19971.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19971.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	42462	42462	42462	42462	42462	
5°	42413	42480	42524	42125	42222	###
15°	24468	24470	24219	23717	23661	6910
25°	13299	13286	13141	12746	12703	6046
35°	4637	4480	4438	4213	4063	2968
45°	664	735	681	611	631	587
55°	47	36	35	32	24	51
65°	12	20	25	8	5	18
75°	23	15	13	16	9	11
85°	8	8	15	9	20	7
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°	42461.9	42461.9	42461.9	42461.9	42461.9	42461.9	42461.9	42461.9	42461.9
2.5°	42646.9	42654.8	42721.4	42911.7	42966.3	42923.7	42779.9	42728.0	42779.9
5°	42412.6	42384.7	42480.5	42621.6	42524.4	42350.1	42125.2	42073.3	42222.3
7.5°	39410.3	39391.6	39482.1	39471.5	39214.6	38885.9	38698.3	38550.5	38678.3
10°	34427.6	34261.2	34201.3	34306.5	33883.3	33429.4	33159.3	33259.1	33039.5
12.5°	28818.1	28795.4	28901.9	28772.8	28527.9	28249.8	27918.4	27740.1	27580.4
15°	24467.5	24527.4	24470.2	24417.0	24218.7	24009.7	23717.0	23593.2	23661.1
17.5°	21052.6	21035.3	20975.4	21064.6	20911.5	20612.1	20355.2	20399.2	20473.7
20°	18363.0	18289.8	18148.7	18186.0	18112.8	17879.9	17645.6	17488.6	17515.2
22.5°	15590.8	15654.7	15637.4	15526.9	15412.5	15242.1	15127.7	14922.7	15018.6
25°	13299.1	13309.8	13285.8	13269.8	13140.7	12977.0	12745.5	12696.2	12702.9
27.5°	10954.2	11004.7	10984.8	10916.9	10786.5	10649.4	10505.7	10392.6	10381.9
30°	8671.8	8743.6	8601.2	8504.1	8429.6	8405.6	8164.7	7995.7	7770.8
32.5°	6710.1	6603.6	6149.8	6151.2	6296.2	6353.4	6123.2	5739.9	5677.4
35°	4636.7	4618.0	4479.6	4437.0	4438.4	4382.5	4213.4	4064.4	4063.1
37.5°	2906.6	2975.8	3053.0	3035.7	2865.3	2692.3	2611.1	2698.9	2724.2
40°	1744.7	1835.2	1928.4	1939.0	1813.9	1614.3	1589.0	1670.2	1746.1
42.5°	1092.6	1131.2	1193.8	1205.7	1116.6	1043.4	996.8	1055.4	1055.4
45°	664.1	700.0	734.6	737.3	681.4	620.2	610.9	633.5	630.8
47.5°	391.3	392.6	405.9	396.6	378.0	348.7	336.7	348.7	351.3
50°	183.7	179.7	186.3	203.6	181.0	153.0	155.7	146.4	131.8
52.5°	43.9	39.9	47.9	51.9	50.6	53.2	50.6	50.6	38.6
55°	46.6	29.3	35.9	37.3	34.6	37.3	31.9	21.3	24.0
57.5°	31.9	33.3	33.3	37.3	31.9	39.9	33.3	24.0	26.6
60°	31.9	22.6	21.3	35.9	29.3	20.0	22.6	30.6	8.0
62.5°	24.0	22.6	25.3	35.9	25.3	29.3	22.6	35.9	24.0
65°	12.0	20.0	20.0	20.0	25.3	22.6	8.0	16.0	5.3
67.5°	17.3	9.3	8.0	17.3	21.3	14.6	6.7	6.7	12.0
70°	5.3	8.0	4.0	9.3	10.6	9.3	6.7	1.3	0.0
72.5°	9.3	4.0	9.3	8.0	13.3	9.3	8.0	6.7	5.3
75°	22.6	17.3	14.6	16.0	13.3	8.0	16.0	16.0	9.3
77.5°	0.0	0.0	2.7	0.0	0.0	0.0	1.3	0.0	0.0
80°	12.0	9.3	9.3	9.3	5.3	8.0	4.0	1.3	14.6
82.5°	12.0	14.6	14.6	6.7	17.3	10.6	9.3	2.7	14.6
85°	8.0	14.6	8.0	6.7	14.6	12.0	9.3	4.0	20.0
87.5°	0.0	8.0	8.0	5.3	8.0	2.7	6.7	4.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)