

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: P247912

Luminaire Tested: **LD8B200D010 ER8B200827 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247912  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-70)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B200D010 ER8B200827 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20311.0 lumens  
Efficiency: N/A  
Efficacy: 91.0 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

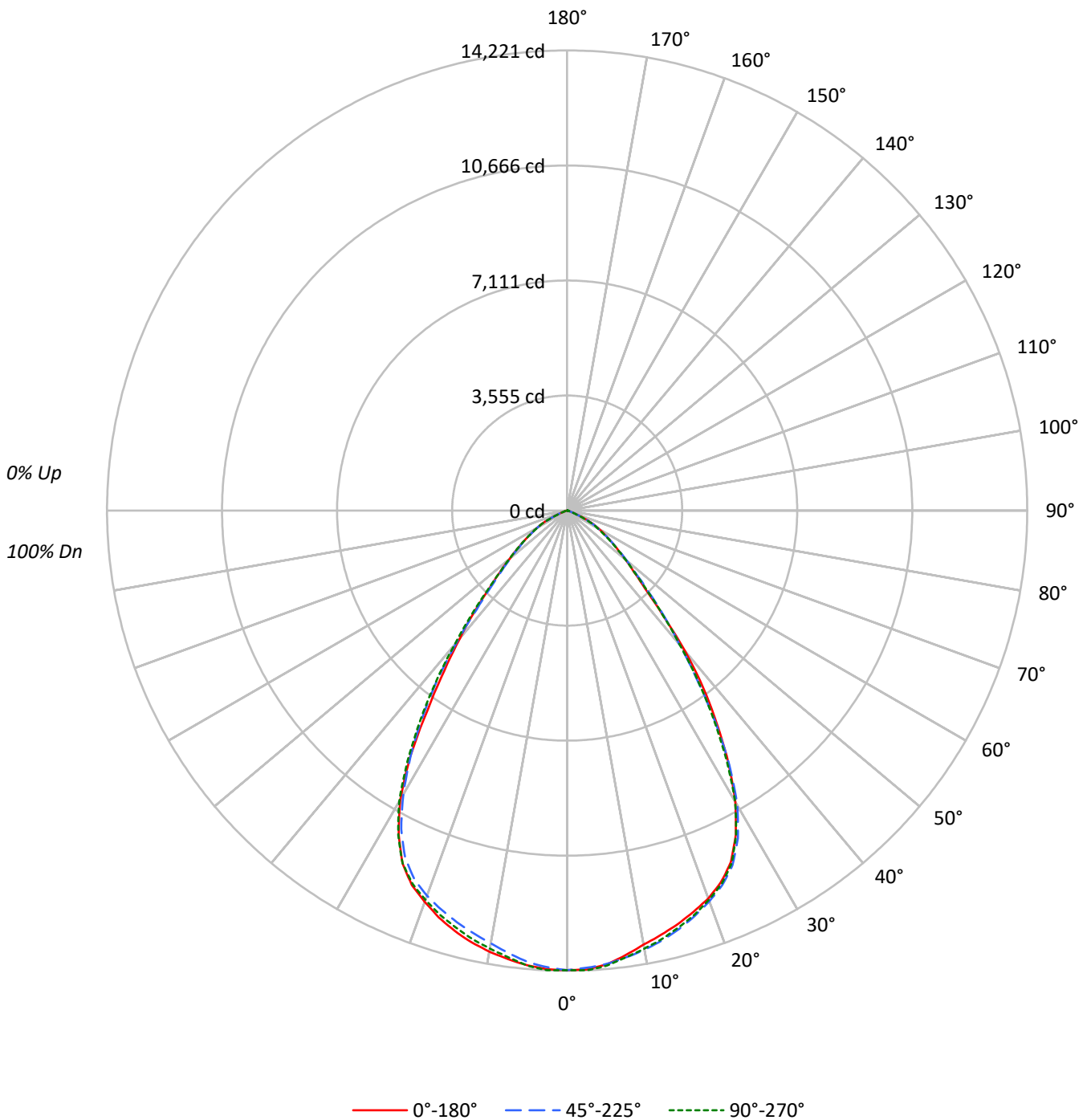
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82					82			
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74					74			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61					61			
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55					55			
7	76	65	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	52	48	57	52	48	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40					40			

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

	0°	90°	180°
0°	437971	437971	437971
5°	435704	436939	436710
10°	426394	430343	433352
15°	422212	425603	429149
20°	418596	420112	422202
25°	407592	409164	409504
30°	369961	369605	367116
35°	304602	297788	282889
40°	227769	217516	207666
45°	147495	151363	147931
50°	112904	112304	111825
55°	88465	86857	86115
60°	70375	66526	67451
65°	46187	40809	41269
70°	16544	15192	15760
75°	5945	7292	5945
80°	3765	5327	4439
85°	885	2654	1769



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1330.3	6.5
10°-20°	3750.5	18.5
20°-30°	5437.6	26.8
30°-40°	4887.7	24.1
40°-50°	2754.3	13.6
50°-60°	1467.5	7.2
60°-70°	586.5	2.9
70°-80°	78.1	0.4
80°-90°	18.4	0.1
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°	10518.5	51.8
0°-40°	15406.2	75.9
0°-60°	19628.0	96.6
0°-90°	20311.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20311.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	14203	14203	14203	14203	14203	
5°	14076	14063	14116	14005	14108	###
15°	13226	13379	13332	13167	13443	3732
25°	11980	12092	12026	11840	12036	5438
35°	8092	7976	7911	7801	7515	5021
45°	3382	3566	3471	3307	3392	2778
55°	1646	1650	1616	1578	1602	1500
65°	633	603	559	543	566	627
75°	50	64	61	60	50	74
85°	2	15	8	21	5	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°	14203.1	14203.1	14203.1	14203.1	14203.1	14203.1	14203.1	14203.1	14203.1
2.5°	14193.2	14163.2	14140.7	14183.2	14220.6	14118.2	14125.7	14170.7	14185.7
5°	14075.8	14048.3	14063.3	14098.3	14115.7	13987.1	14004.6	14080.8	14108.3
7.5°	13856.1	13877.3	13931.0	13975.9	13923.5	13772.4	13797.4	13928.5	13982.2
10°	13617.6	13667.5	13779.9	13832.3	13743.7	13550.2	13578.9	13754.9	13839.8
12.5°	13427.8	13482.7	13600.1	13640.1	13561.4	13352.9	13382.9	13565.1	13666.3
15°	13225.5	13275.5	13379.1	13411.6	13331.7	13139.4	13166.9	13341.7	13442.8
17.5°	12997.1	13040.8	13133.2	13163.1	13093.2	12889.7	12933.4	13095.7	13184.3
20°	12756.1	12787.3	12852.2	12869.7	12802.3	12648.7	12668.7	12808.5	12866.0
22.5°	12427.7	12467.7	12527.6	12546.4	12483.9	12315.4	12334.1	12471.4	12533.9
25°	11979.5	12038.2	12091.9	12115.6	12025.7	11802.2	11839.7	11957.1	12035.7
27.5°	11284.1	11331.5	11426.4	11428.9	11305.3	11073.1	11104.3	11255.4	11275.4
30°	10390.2	10433.9	10517.5	10498.8	10380.2	10104.3	10129.2	10276.6	10310.3
32.5°	9295.2	9311.4	9333.9	9327.7	9182.8	9053.0	9001.8	9019.3	9031.8
35°	8091.6	8120.4	7975.5	7896.9	7910.6	7921.8	7800.7	7621.0	7514.8
37.5°	6925.5	6788.2	6609.7	6548.5	6662.1	6699.5	6589.7	6321.2	6222.6
40°	5658.3	5535.9	5394.8	5406.1	5403.6	5429.8	5291.2	5192.6	5158.9
42.5°	4354.8	4356.1	4448.5	4384.8	4372.3	4190.0	4136.3	4191.3	4251.2
45°	3382.2	3494.6	3565.8	3547.0	3470.9	3307.3	3307.3	3403.5	3392.2
47.5°	2784.2	2824.1	2877.8	2874.1	2819.2	2699.3	2719.3	2785.4	2819.2
50°	2353.5	2370.9	2395.9	2374.7	2341.0	2266.1	2264.8	2311.0	2331.0
52.5°	1968.9	1978.9	1972.7	1961.4	1942.7	1902.7	1890.3	1929.0	1934.0
55°	1645.5	1664.3	1650.5	1619.3	1615.6	1579.4	1578.1	1609.3	1601.8
57.5°	1370.9	1352.1	1333.4	1307.2	1303.5	1292.2	1304.7	1309.7	1302.2
60°	1141.1	1142.4	1106.2	1081.2	1078.7	1062.5	1080.0	1093.7	1093.7
62.5°	918.9	913.9	891.4	854.0	860.2	854.0	861.5	864.0	852.7
65°	633.0	634.2	603.0	558.1	559.3	554.3	543.1	560.6	565.6
67.5°	337.1	334.6	310.9	294.7	288.4	290.9	303.4	307.1	293.4
70°	183.5	177.3	182.3	164.8	168.5	162.3	168.5	178.5	174.8
72.5°	93.6	99.9	89.9	82.4	92.4	91.1	106.1	97.4	87.4
75°	49.9	53.7	63.7	58.7	61.2	58.7	59.9	56.2	49.9
77.5°	36.2	40.0	46.2	44.9	43.7	41.2	46.2	51.2	41.2
80°	21.2	26.2	28.7	33.7	30.0	33.7	38.7	31.2	25.0
82.5°	13.7	21.2	21.2	22.5	32.5	21.2	35.0	31.2	25.0
85°	2.5	3.7	15.0	8.7	7.5	22.5	21.2	16.2	5.0
87.5°	0.0	8.7	20.0	10.0	16.2	15.0	21.2	22.5	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)