

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: P248098

Luminaire Tested: **LD8B200D010 ER8B200835 8LBW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248098  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-72)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B200D010 ER8B200835 8LBW0WH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3500 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22210.0 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

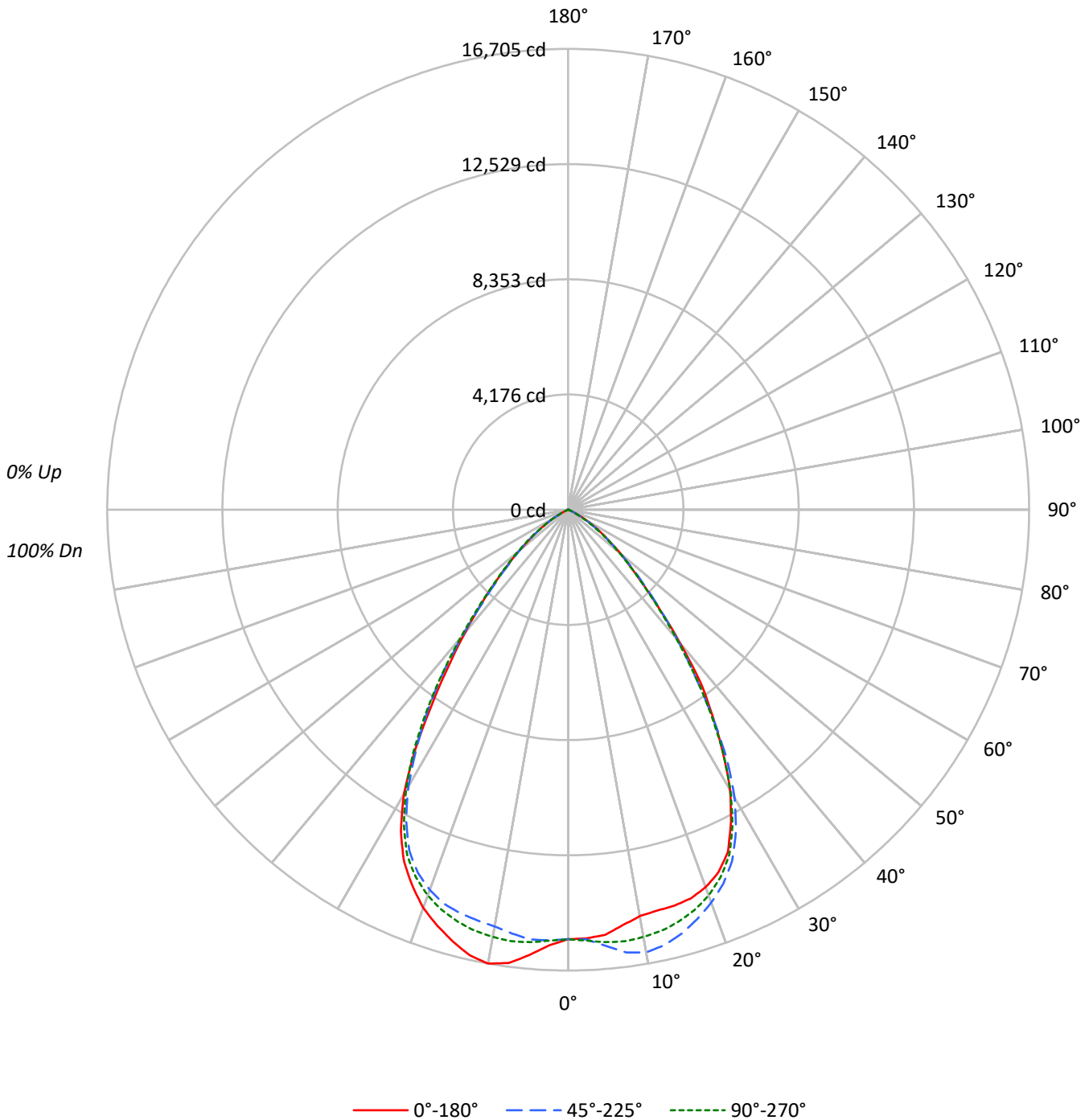
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94					92				
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85					84				
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78					76				
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71					69				
5	88	78	72	67	86	77	71	66	76	70	66	74	69	65	72	68	65					63				
6	83	72	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59					58				
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54					53				
8	73	63	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50					49				
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47					45				
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43					42				

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

	0°	90°	180°
0°	480128	480128	480128
5°	478708	487069	501611
10°	468409	492410	523080
15°	474293	493540	516947
20°	477840	488233	504043
25°	465603	469951	478961
30°	417652	418742	423763
35°	343112	338052	323424
40°	253491	245295	232760
45°	168126	166849	164354
50°	118939	113767	111086
55°	79486	72331	68395
60°	44731	38823	35375
65°	17285	12426	10295
70°	5040	2876	2398
75°	1430	798	953
80°	0	0	0
85°	955	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1506.2	6.8
10°-20°	4367.9	19.7
20°-30°	6272.5	28.2
30°-40°	5544.6	25.0
40°-50°	3035.0	13.7
50°-60°	1249.5	5.6
60°-70°	223.9	1.0
70°-80°	9.7	0.0
80°-90°	0.8	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°	12146.6	54.7
0°-40°	17691.1	79.7
0°-60°	21975.6	98.9
0°-90°	22210.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22210.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	15570	15570	15570	15570	15570	
5°	15465	15880	15735	15639	16205	###
15°	14857	15907	15460	15140	16193	4196
25°	13684	14054	13812	13630	14077	6190
35°	9115	9033	8980	8858	8592	5654
45°	3855	3968	3826	3662	3769	3103
55°	1478	1409	1345	1302	1272	1340
65°	237	185	170	137	141	276
75°	12	5	7	8	8	18
85°	3	3	0	8	0	1
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°	15570.2	15570.2	15570.2	15570.2	15570.2	15570.2	15570.2	15570.2	15570.2
2.5°	15550.3	15578.2	15591.5	15662.1	15638.1	15604.8	15623.5	15680.7	15804.4
5°	15465.1	15614.1	15880.3	15970.8	15735.2	15530.3	15639.4	15952.2	16205.0
7.5°	15184.3	15559.6	16189.0	16326.1	15780.5	15309.4	15499.7	16174.4	16573.6
10°	14959.4	15425.2	16290.2	16493.8	15725.9	15116.4	15338.7	16163.8	16705.4
12.5°	14883.5	15313.4	16162.4	16392.7	15634.1	15048.6	15244.2	16008.1	16537.7
15°	14856.9	15201.6	15906.9	16091.9	15459.8	14982.0	15140.4	15753.9	16193.0
17.5°	14774.4	15031.3	15556.9	15707.3	15220.2	14850.3	14972.7	15449.1	15801.8
20°	14561.5	14779.7	15157.7	15262.8	14878.2	14588.1	14666.6	15024.6	15360.0
22.5°	14228.8	14369.9	14675.9	14726.5	14421.8	14190.2	14239.4	14506.9	14751.8
25°	13684.5	13783.0	14054.5	14067.8	13812.3	13610.0	13629.9	13853.5	14077.1
27.5°	12768.9	12955.2	13154.8	13212.1	12891.4	12654.5	12715.7	12864.7	13126.9
30°	11729.6	11866.6	12062.3	12018.4	11760.2	11547.3	11572.5	11705.6	11901.2
32.5°	10433.4	10578.4	10678.3	10587.8	10457.3	10267.0	10209.8	10267.0	10320.3
35°	9114.6	9163.8	9033.4	8981.5	8980.2	8921.6	8857.7	8684.7	8591.6
37.5°	7855.6	7701.3	7467.1	7367.2	7481.7	7624.1	7432.5	7206.2	7089.1
40°	6297.3	6301.3	6154.9	6051.1	6093.7	6045.8	5961.9	5816.9	5782.3
42.5°	4922.6	4937.2	4983.8	4925.2	4822.8	4667.1	4620.5	4627.2	4729.6
45°	3855.3	3884.6	3968.4	3960.4	3826.0	3727.5	3662.3	3754.2	3768.8
47.5°	3066.1	3107.4	3142.0	3139.3	3035.5	2937.1	2907.8	2925.1	2961.0
50°	2479.3	2475.3	2448.7	2414.1	2371.5	2351.5	2318.2	2315.6	2315.6
52.5°	1909.7	1916.3	1863.1	1865.8	1845.8	1789.9	1775.3	1746.0	1746.0
55°	1478.5	1451.9	1409.3	1368.1	1345.4	1306.8	1301.5	1270.9	1272.2
57.5°	1050.0	1026.0	975.5	950.2	932.9	922.2	899.6	875.7	865.0
60°	725.3	705.3	677.4	652.1	629.5	624.1	602.8	578.9	573.6
62.5°	437.8	432.5	383.3	374.0	356.7	348.7	334.0	318.1	319.4
65°	236.9	202.3	185.0	174.3	170.3	149.0	137.1	134.4	141.1
67.5°	63.9	63.9	51.9	49.2	49.2	35.9	41.3	39.9	51.9
70°	55.9	39.9	34.6	27.9	31.9	18.6	34.6	27.9	26.6
72.5°	29.3	16.0	13.3	13.3	14.6	9.3	21.3	12.0	9.3
75°	12.0	8.0	5.3	2.7	6.7	6.7	8.0	2.7	8.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.7	4.0	2.7	0.0	0.0	0.0	8.0	0.0	0.0
87.5°	0.0	2.7	1.3	0.0	0.0	0.0	2.7	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)