

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: P248068

Luminaire Tested: **LD8B200D010 ER8B200850 8LBS0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248068  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-93)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B200D010 ER8B200850 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23341.0 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

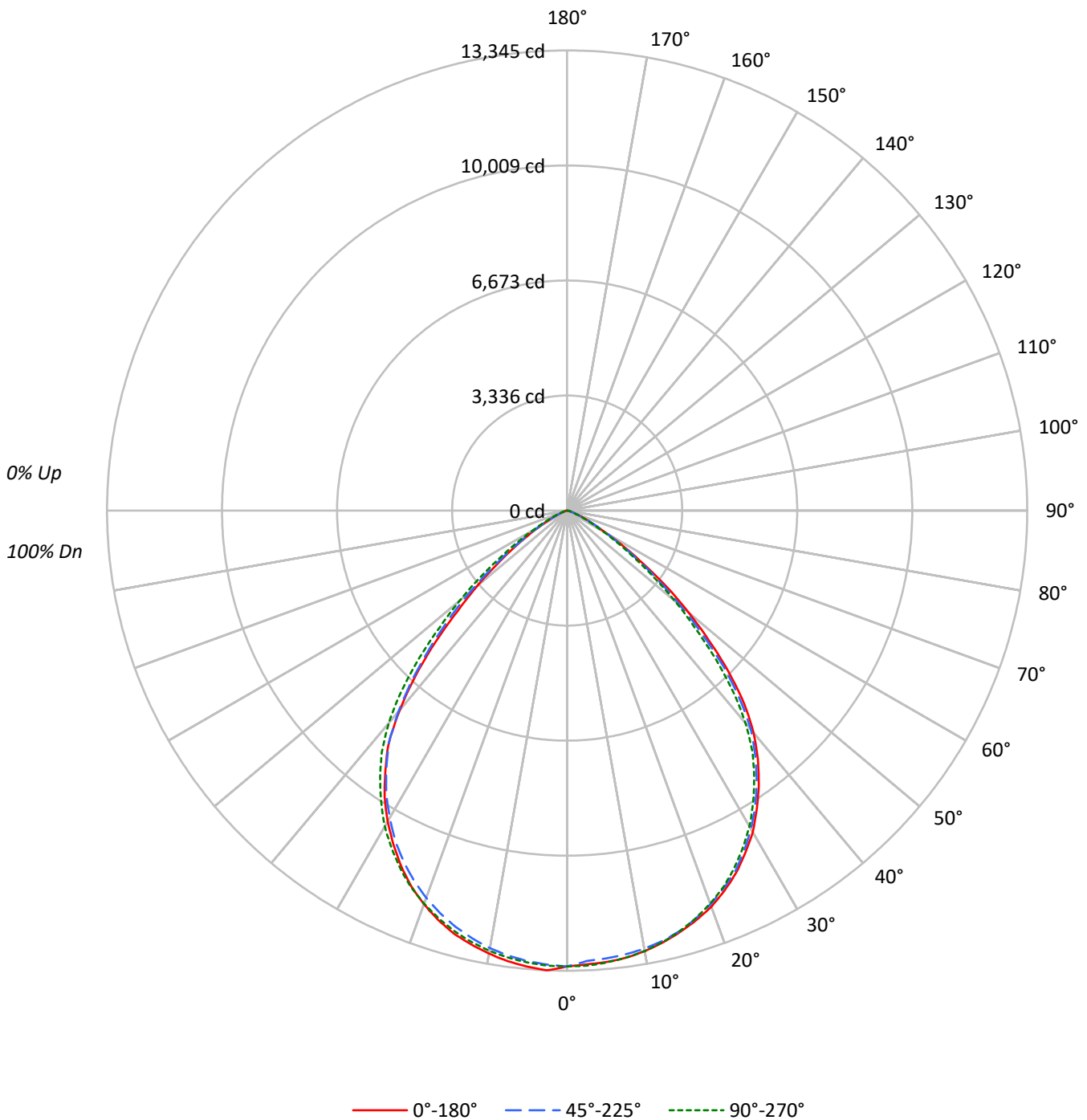
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	93	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72					72			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64					64			
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	43					43			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39					39			
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36					36			

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

	0°	90°	180°
0°	407659	407659	407659
5°	406836	407254	410885
10°	406264	406010	408503
15°	403920	403189	405385
20°	401220	398033	398654
25°	394441	389716	387378
30°	383367	376598	370644
35°	364806	356027	346135
40°	338765	324221	304199
45°	288758	265772	235969
50°	219874	195882	163419
55°	144941	126318	101749
60°	81389	71577	56202
65°	42684	38161	27150
70°	20421	17987	11306
75°	11569	12522	7875
80°	8861	8613	4546
85°	5236	4281	1911



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1248.5	5.3
10°-20°	3556.0	15.2
20°-30°	5253.3	22.5
30°-40°	5854.3	25.1
40°-50°	4623.3	19.8
50°-60°	2135.0	9.1
60°-70°	548.5	2.3
70°-80°	105.6	0.5
80°-90°	16.5	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°	10057.8	43.1
0°-40°	15912.0	68.2
0°-60°	22670.3	97.1
0°-90°	23341.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23341.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	13220	13220	13220	13220	13220	
5°	13143	13038	13157	13116	13274	###
15°	12652	12623	12630	12498	12698	3571
25°	11593	11539	11454	11225	11385	5327
35°	9691	9583	9458	9142	9195	6035
45°	6622	6429	6094	5608	5411	5054
55°	2696	2541	2350	2011	1893	2498
65°	585	593	523	400	372	642
75°	97	102	105	80	66	117
85°	15	15	12	7	5	21
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°	13220.1	13220.1	13220.1	13220.1	13220.1	13220.1	13220.1	13220.1	13220.1
2.5°	13170.2	13232.2	13074.5	13202.5	13207.9	13117.6	13179.6	13253.8	13345.4
5°	13143.2	13206.6	13038.1	13156.7	13156.7	13058.3	13116.3	13181.0	13274.0
7.5°	13079.9	13148.6	12982.8	13093.3	13075.8	12968.0	13019.2	13082.6	13182.3
10°	12974.7	13059.6	12897.9	13003.0	12966.6	12842.6	12887.1	12953.1	13046.2
12.5°	12830.5	12931.6	12780.6	12872.3	12814.3	12672.8	12709.2	12794.1	12885.7
15°	12652.5	12756.3	12622.9	12702.4	12629.6	12471.9	12497.5	12583.8	12698.4
17.5°	12454.4	12555.5	12405.8	12492.1	12395.1	12232.0	12241.4	12341.1	12444.9
20°	12226.6	12310.1	12156.5	12238.7	12129.5	11950.2	11951.6	12040.5	12148.4
22.5°	11927.3	12014.9	11855.9	11924.6	11824.9	11633.4	11610.5	11696.8	11800.6
25°	11593.0	11684.7	11539.1	11563.3	11454.1	11256.0	11225.0	11288.3	11385.4
27.5°	11192.6	11282.9	11118.5	11149.5	11029.5	10839.4	10797.7	10831.4	10908.2
30°	10766.7	10823.3	10666.9	10692.5	10576.6	10351.5	10288.1	10333.9	10409.4
32.5°	10242.3	10282.7	10149.3	10162.7	10037.4	9843.3	9759.7	9773.2	9850.0
35°	9690.9	9712.5	9583.1	9585.8	9457.7	9260.9	9142.3	9135.5	9194.9
37.5°	9083.0	9097.8	8967.0	8960.3	8828.2	8615.2	8491.2	8469.6	8506.0
40°	8415.7	8435.9	8299.8	8256.6	8054.4	7811.8	7609.6	7571.8	7557.0
42.5°	7606.9	7551.6	7408.7	7335.9	7132.4	6821.0	6633.6	6577.0	6528.5
45°	6621.5	6577.0	6428.7	6264.3	6094.4	5859.9	5607.8	5452.7	5411.0
47.5°	5587.6	5535.0	5322.0	5177.8	5010.6	4902.8	4631.8	4393.2	4289.4
50°	4583.3	4525.3	4288.1	4181.6	4083.2	3922.7	3659.9	3445.5	3406.5
52.5°	3654.5	3566.9	3363.3	3252.8	3165.2	2987.2	2750.0	2625.9	2559.9
55°	2696.0	2682.6	2541.0	2461.5	2349.6	2208.1	2011.2	1918.2	1892.6
57.5°	1964.1	1914.2	1860.3	1792.9	1695.8	1517.9	1396.6	1326.5	1321.1
60°	1319.7	1335.9	1335.9	1261.7	1160.6	1044.7	947.7	909.9	911.3
62.5°	885.7	896.4	893.7	861.4	783.2	688.8	625.5	598.5	599.9
65°	585.0	582.3	593.1	570.2	523.0	457.0	400.4	385.5	372.1
67.5°	372.1	376.1	372.1	359.9	331.6	284.4	246.7	223.8	217.0
70°	226.5	221.1	222.4	219.7	199.5	176.6	149.6	130.8	125.4
72.5°	136.2	140.2	141.5	145.6	142.9	126.7	107.8	94.4	91.7
75°	97.1	98.4	102.4	106.5	105.1	94.4	79.5	70.1	66.1
77.5°	72.8	72.8	75.5	80.9	76.8	67.4	56.6	48.5	45.8
80°	49.9	51.2	52.6	52.6	48.5	43.1	33.7	28.3	25.6
82.5°	29.7	31.0	29.7	29.7	27.0	21.6	16.2	14.8	13.5
85°	14.8	14.8	14.8	14.8	12.1	9.4	6.7	5.4	5.4
87.5°	6.7	6.7	6.7	5.4	4.0	2.7	2.7	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)