

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: P248119

Luminaire Tested: **LD8B200D010 ER8B200950 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248119
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 ER8B200950 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20481.0 lumens
Efficiency: N/A
Efficacy: 91.7 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

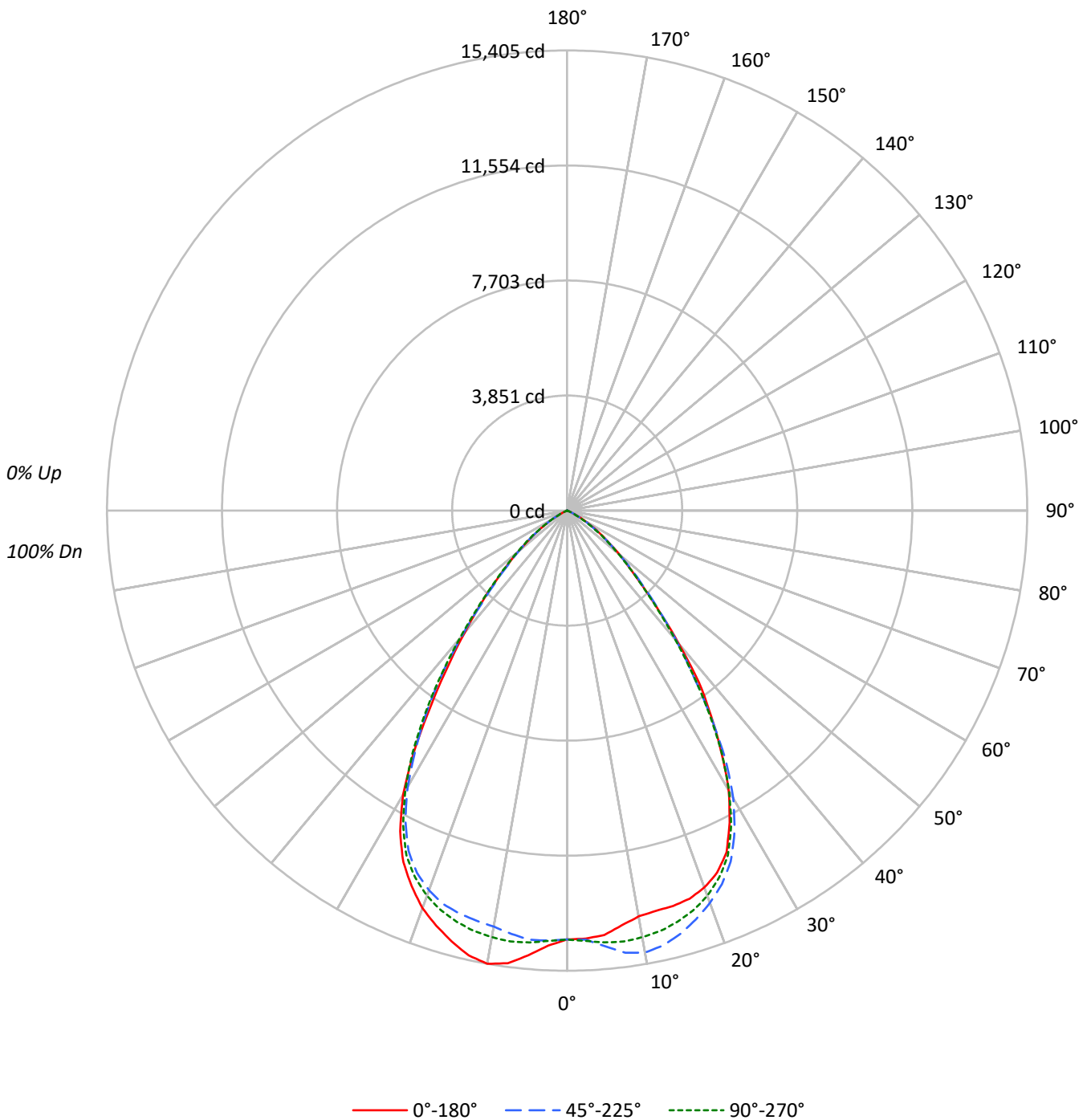
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	95	94	92		
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92	92	92	90	87	85	84		
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84	84	84	83	80	78	76		
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76	76	76	74	71	69	69		
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71	69	69	69	67	63	59	58		
5	88	78	72	67	86	77	71	66	76	70	66	74	69	65	72	68	65	63	63	63	63	58	54	53		
6	83	72	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58	58	58	58	54	50	49		
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53	53	53	53	54	50	49		
8	73	63	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49	49	49	55	50	47	45		
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45	45	45	55	50	47	45		
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42	42	42	52	47	43	42		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	442751	442751	442751
5°	441443	449153	462563
10°	431943	454077	482358
15°	437370	455120	476703
20°	440641	450226	464803
25°	429357	433365	441674
30°	385140	386144	390777
35°	316399	311735	298244
40°	233759	226199	214638
45°	155039	153862	151559
50°	109680	104912	102436
55°	73298	66702	63073
60°	41247	35801	32619
65°	15936	11463	9493
70°	4643	2660	2209
75°	1311	727	882
80°	0	0	0
85°	885	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1388.9	6.8
10°-20°	4027.8	19.7
20°-30°	5784.2	28.2
30°-40°	5112.9	25.0
40°-50°	2798.8	13.7
50°-60°	1152.2	5.6
60°-70°	206.4	1.0
70°-80°	9.0	0.0
80°-90°	0.7	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°	11201.0	54.7
0°-40°	16313.9	79.7
0°-60°	20264.9	98.9
0°-90°	20481.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20481.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14358	14358	14358	14358	14358	
5°	14261	14644	14510	14422	14944	###
15°	13700	14669	14256	13962	14932	3869
25°	12619	12960	12737	12569	12981	5708
35°	8405	8330	8281	8168	7923	5214
45°	3555	3660	3528	3377	3475	2861
55°	1363	1300	1241	1200	1173	1236
65°	218	171	157	126	130	254
75°	11	5	6	7	7	17
85°	2	2	0	7	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°	14358.1	14358.1	14358.1	14358.1	14358.1	14358.1	14358.1	14358.1	14358.1
2.5°	14339.7	14365.5	14377.8	14442.8	14420.7	14390.0	14407.2	14460.0	14574.1
5°	14261.2	14398.6	14644.1	14727.5	14510.3	14321.3	14421.9	14710.3	14943.5
7.5°	14002.2	14348.3	14928.8	15055.2	14552.0	14117.6	14293.1	14915.3	15283.4
10°	13794.8	14224.4	15022.0	15209.8	14501.7	13939.6	14144.6	14905.4	15404.9
12.5°	13724.9	14121.3	14904.2	15116.5	14417.0	13877.1	14057.5	14761.9	15250.3
15°	13700.3	14018.2	14668.6	14839.2	14256.3	13815.7	13961.7	14527.5	14932.4
17.5°	13624.3	13861.1	14345.8	14484.5	14035.4	13694.2	13807.1	14246.4	14571.7
20°	13427.9	13629.2	13977.7	14074.6	13720.0	13452.5	13524.9	13855.0	14164.2
22.5°	13121.1	13251.2	13533.4	13580.1	13299.1	13085.5	13130.9	13377.6	13603.4
25°	12619.2	12710.0	12960.4	12972.6	12737.0	12550.5	12568.9	12775.0	12981.2
27.5°	11774.9	11946.7	12130.8	12183.5	11887.8	11669.3	11725.8	11863.2	12105.0
30°	10816.5	10942.9	11123.2	11082.8	10844.7	10648.3	10671.6	10794.4	10974.8
32.5°	9621.2	9754.9	9847.0	9763.5	9643.3	9467.8	9415.0	9467.8	9516.9
35°	8405.0	8450.4	8330.2	8282.3	8281.1	8227.1	8168.2	8008.6	7922.7
37.5°	7244.1	7101.7	6885.8	6793.7	6899.3	7030.6	6853.9	6645.2	6537.2
40°	5807.1	5810.7	5675.8	5580.0	5619.3	5575.1	5497.8	5364.0	5332.1
42.5°	4539.4	4552.9	4595.8	4541.8	4447.3	4303.8	4260.8	4266.9	4361.4
45°	3555.2	3582.2	3659.5	3652.1	3528.2	3437.4	3377.2	3461.9	3475.4
47.5°	2827.4	2865.5	2897.4	2894.9	2799.2	2708.4	2681.4	2697.4	2730.5
50°	2286.3	2282.6	2258.0	2226.1	2186.9	2168.4	2137.8	2135.3	2135.3
52.5°	1761.0	1767.2	1718.1	1720.5	1702.1	1650.6	1637.1	1610.1	1610.1
55°	1363.4	1338.9	1299.6	1261.6	1240.7	1205.1	1200.2	1172.0	1173.2
57.5°	968.3	946.2	899.5	876.2	860.3	850.4	829.6	807.5	797.7
60°	668.8	650.4	624.6	601.3	580.5	575.6	555.9	533.8	528.9
62.5°	403.7	398.8	353.4	344.8	328.9	321.5	308.0	293.3	294.5
65°	218.4	186.5	170.6	160.8	157.1	137.4	126.4	123.9	130.1
67.5°	58.9	58.9	47.9	45.4	45.4	33.1	38.0	36.8	47.9
70°	51.5	36.8	31.9	25.8	29.5	17.2	31.9	25.8	24.5
72.5°	27.0	14.7	12.3	12.3	13.5	8.6	19.6	11.0	8.6
75°	11.0	7.4	4.9	2.5	6.1	6.1	7.4	2.5	7.4
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°	2.5	3.7	2.5	0.0	0.0	0.0	7.4	0.0	0.0
87.5°	0.0	2.5	1.2	0.0	0.0	0.0	2.5	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)