

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: P248197

Luminaire Tested: **LD8B200D010 ER8B200930 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248197  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-73)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B200D010 ER8B200930 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15958.6 lumens  
Efficiency: N/A  
Efficacy: 71.5 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

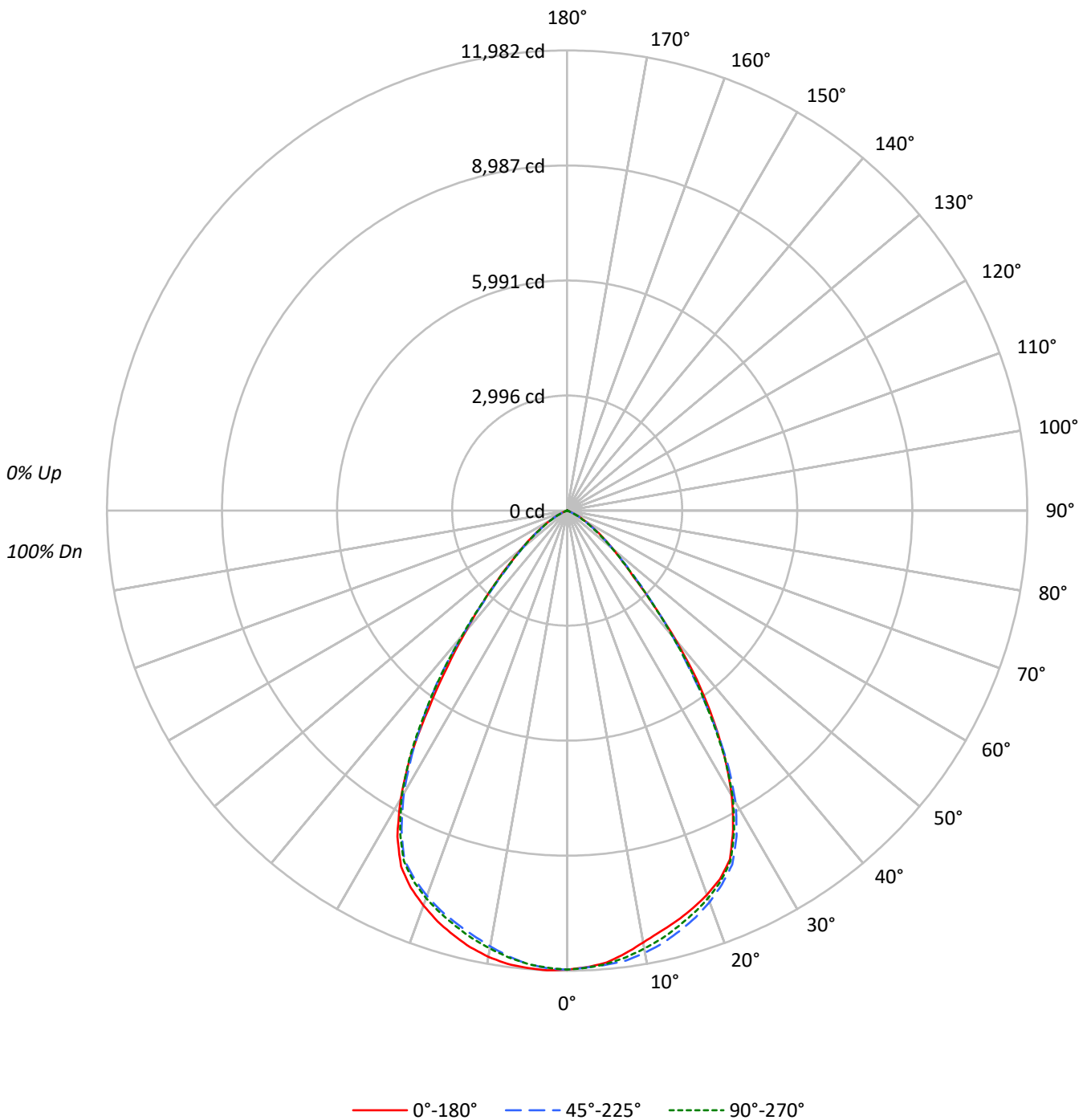
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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	82	88	84	80	86	82	79	84	80	78	76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49
9	70	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42

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

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1123.9	7.0
10°-20°	3166.0	19.8
20°-30°	4565.5	28.6
30°-40°	4009.6	25.1
40°-50°	2027.4	12.7
50°-60°	829.9	5.2
60°-70°	218.2	1.4
70°-80°	15.4	0.1
80°-90°	2.8	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°	8855.4	55.5
0°-40°	12864.9	80.6
0°-60°	15722.2	98.5
0°-90°	15958.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15958.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	11953	11953	11953	11953	11953	
5°	11815	11869	11848	11848	11956	###
15°	11055	11328	11203	11131	11444	3119
25°	10026	10170	10067	10031	10227	4530
35°	6610	6497	6478	6450	6286	4075
45°	2467	2583	2509	2445	2560	2036
55°	938	901	873	870	900	867
65°	236	210	188	186	202	242
75°	7	4	13	4	8	17
85°	2	2	2	1	2	4
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°	11952.8	11952.8	11952.8	11952.8	11952.8	11952.8	11952.8	11952.8	11952.8
2.5°	11897.7	11956.0	11904.3	11935.2	11914.2	11880.1	11927.4	11905.5	11982.4
5°	11815.3	11885.7	11869.1	11907.7	11848.3	11785.6	11848.3	11853.8	11956.0
7.5°	11627.5	11748.3	11817.6	11863.7	11732.9	11630.7	11705.5	11772.5	11904.3
10°	11417.5	11563.7	11689.0	11760.4	11579.0	11429.6	11518.6	11633.0	11798.9
12.5°	11224.1	11385.7	11534.0	11603.2	11412.0	11243.9	11328.5	11470.3	11648.3
15°	11054.9	11187.8	11328.5	11399.9	11203.2	11043.9	11130.6	11261.5	11443.8
17.5°	10861.4	10986.7	11110.9	11167.0	10984.5	10846.0	10925.2	11037.3	11218.6
20°	10644.9	10752.6	10847.1	10913.0	10738.3	10606.5	10677.9	10782.3	10939.4
22.5°	10391.0	10472.4	10533.9	10593.2	10451.5	10320.7	10382.3	10464.6	10630.7
25°	10026.2	10108.6	10170.2	10237.2	10066.8	9954.7	10030.6	10065.8	10227.3
27.5°	9358.0	9462.4	9554.7	9614.0	9419.5	9322.8	9342.6	9400.8	9572.3
30°	8575.5	8626.1	8766.7	8784.3	8619.5	8451.3	8505.1	8566.7	8667.8
32.5°	7645.8	7674.4	7755.6	7764.4	7641.3	7511.7	7512.7	7485.3	7587.5
35°	6610.5	6545.6	6497.3	6530.3	6477.5	6500.6	6450.0	6323.7	6286.2
37.5°	5541.1	5499.4	5287.3	5270.8	5393.9	5468.6	5419.1	5137.9	5118.0
40°	4383.9	4336.7	4257.6	4245.5	4261.9	4304.8	4213.6	4130.0	4104.8
42.5°	3280.5	3305.8	3331.1	3354.1	3306.8	3214.6	3210.2	3194.7	3254.2
45°	2467.2	2521.1	2582.7	2613.4	2509.0	2437.6	2445.2	2479.3	2559.6
47.5°	1950.8	1961.8	1984.8	2011.2	1949.6	1858.4	1882.6	1937.5	1972.7
50°	1549.6	1560.5	1553.9	1550.7	1521.0	1466.0	1500.1	1540.8	1552.9
52.5°	1222.1	1207.8	1195.7	1188.0	1169.3	1147.3	1154.0	1188.0	1206.8
55°	938.5	927.5	901.2	890.2	872.6	867.1	870.5	896.8	900.1
57.5°	705.6	690.2	663.7	642.9	644.0	635.3	639.6	658.3	668.2
60°	530.8	520.9	474.7	478.1	462.6	460.5	470.4	481.4	485.7
62.5°	367.0	370.4	335.2	330.8	323.1	324.2	330.8	339.6	340.7
65°	236.3	222.0	210.0	201.1	187.9	181.4	185.7	210.0	202.2
67.5°	92.4	97.9	79.1	92.4	85.8	72.5	83.5	93.4	89.0
70°	50.6	51.7	42.8	40.7	42.8	39.6	45.1	50.6	38.5
72.5°	31.8	31.8	23.1	23.1	29.7	19.7	23.1	36.3	28.6
75°	6.6	7.7	4.4	2.2	13.2	6.6	4.4	13.2	7.7
77.5°	0.0	7.7	0.0	0.0	0.0	0.0	2.2	2.2	2.2
80°	0.0	0.0	0.0	3.3	0.0	0.0	0.0	2.2	2.2
82.5°	0.0	2.2	0.0	0.0	0.0	0.0	0.0	2.2	0.0
85°	2.2	8.7	2.2	0.0	2.2	2.2	1.1	6.6	2.2
87.5°	14.2	6.6	1.1	6.6	5.5	6.6	7.7	6.6	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)