

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: P247801

Luminaire Tested: **LD8B200D010 ER8B200930 8LBW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247801  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-69)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B200D010 ER8B200930 8LBW0LI  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18825.0 lumens  
Efficiency: N/A  
Efficacy: 84.3 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

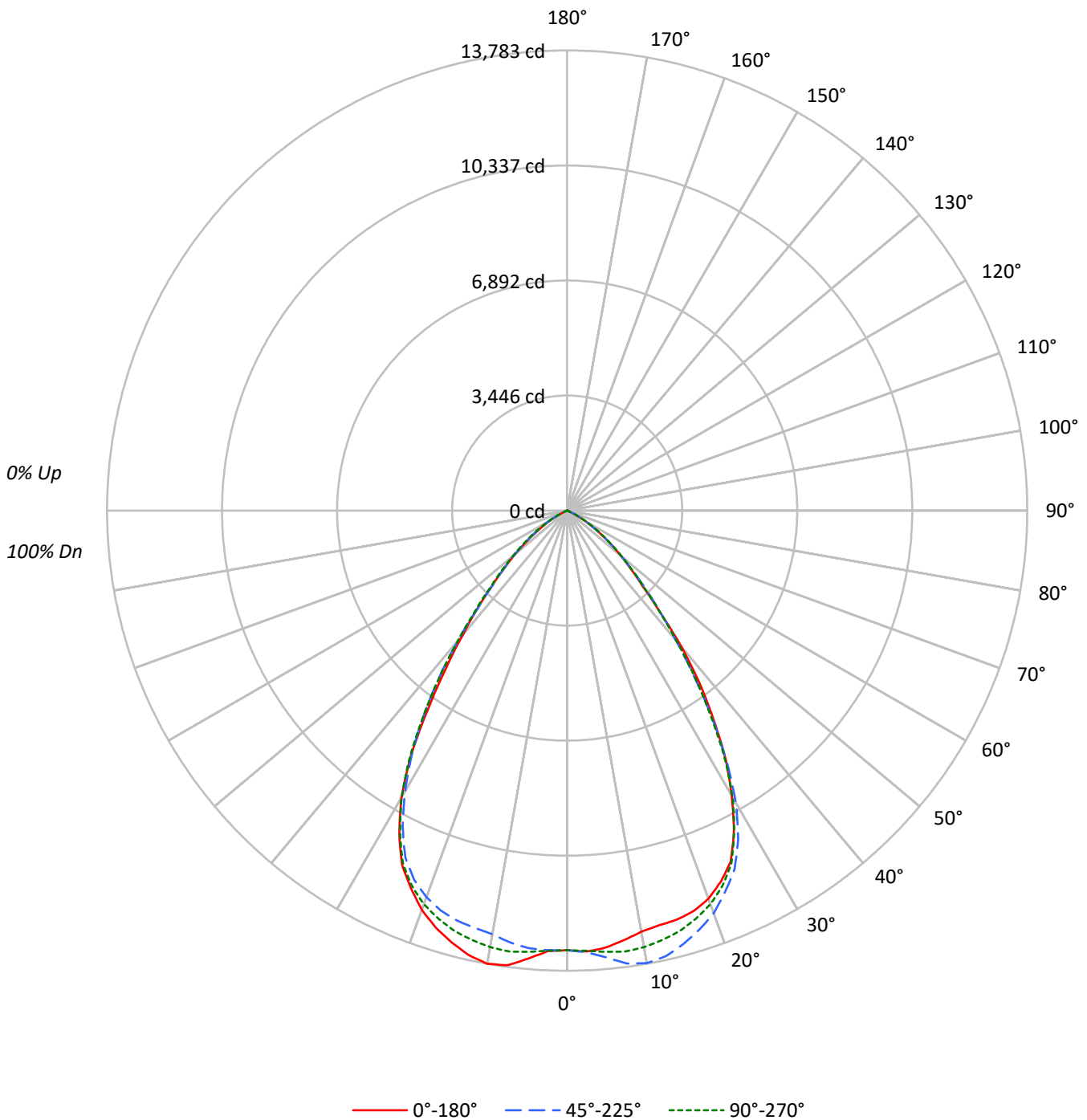
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92	92	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	90	87	85	83	83	83
3	100	92	86	82	97	91	85	81	88	84	80	86	82	79	83	80	77	76	76	76
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69	69	69
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63	63	63
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57	57	57
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53	53	53
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	54	50	48	48	48
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45	45	45
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41	41	41

**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°	1268.8	6.7
10°-20°	3674.6	19.5
20°-30°	5270.8	28.0
30°-40°	4651.1	24.7
40°-50°	2575.2	13.7
50°-60°	1134.8	6.0
60°-70°	229.3	1.2
70°-80°	17.2	0.1
80°-90°	3.1	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°	10214.1	54.3
0°-40°	14865.3	79.0
0°-60°	18575.3	98.7
0°-90°	18825.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18825.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	13166	13166	13166	13166	13166	
5°	13143	13432	13267	13159	13472	###
15°	12687	13442	13036	12718	13385	3579
25°	11596	11856	11645	11470	11707	5238
35°	7656	7546	7491	7496	7264	4749
45°	3185	3320	3263	3141	3157	2594
55°	1243	1238	1279	1213	1162	1139
65°	162	174	201	182	169	223
75°	16	16	12	13	20	16
85°	12	7	3	10	4	6
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°	13166.0	13166.0	13166.0	13166.0	13166.0	13166.0	13166.0	13166.0	13166.0
2.5°	13221.0	13166.0	13238.6	13193.5	13196.9	13128.7	13182.5	13234.2	13205.6
5°	13142.9	13193.5	13432.0	13425.4	13267.1	13061.7	13159.4	13394.6	13471.6
7.5°	12981.4	13163.9	13681.5	13728.8	13322.1	12889.1	13048.4	13538.7	13734.3
10°	12805.6	13068.3	13763.9	13856.2	13277.0	12706.6	12886.9	13504.6	13782.6
12.5°	12721.0	12974.8	13668.4	13757.4	13173.8	12618.8	12801.1	13374.9	13633.2
15°	12686.9	12878.2	13441.9	13523.2	13036.3	12569.3	12717.6	13186.9	13384.7
17.5°	12583.6	12715.5	13161.7	13213.3	12818.7	12448.4	12565.0	12924.2	13096.9
20°	12373.7	12461.6	12836.3	12863.8	12546.2	12231.9	12322.0	12605.5	12723.1
22.5°	12027.4	12085.7	12362.7	12372.6	12164.9	11892.4	11967.0	12189.1	12233.0
25°	11595.6	11601.1	11856.0	11808.8	11645.1	11392.3	11470.3	11660.4	11706.6
27.5°	10818.5	10837.3	11095.5	11032.9	10839.5	10619.7	10668.0	10841.6	10887.8
30°	9854.7	9959.2	10108.6	10077.9	9911.9	9691.0	9700.9	9871.2	9920.7
32.5°	8841.4	8810.7	8887.6	8864.5	8778.9	8604.1	8662.3	8706.2	8718.4
35°	7655.6	7630.4	7545.8	7439.2	7490.9	7558.9	7496.4	7399.6	7264.4
37.5°	6516.0	6374.2	6209.3	6098.4	6281.9	6353.4	6291.8	6081.9	5973.1
40°	5307.0	5157.6	5068.6	5041.1	5096.1	5148.9	5079.6	4977.4	4869.7
42.5°	4092.7	4091.5	4113.6	4108.1	4070.7	3994.9	3940.0	3983.9	3966.3
45°	3184.9	3234.4	3320.1	3334.4	3262.9	3151.9	3140.9	3182.7	3157.4
47.5°	2592.5	2610.1	2640.9	2684.9	2644.2	2588.2	2559.6	2572.8	2549.7
50°	2090.3	2094.7	2108.9	2142.0	2126.5	2088.1	2060.6	2044.1	2035.4
52.5°	1641.9	1632.1	1643.0	1654.0	1674.9	1649.6	1626.6	1591.4	1563.9
55°	1243.0	1235.2	1237.5	1246.2	1279.3	1250.7	1213.3	1190.2	1161.7
57.5°	902.3	877.0	882.5	912.2	943.0	930.9	897.9	860.5	825.4
60°	607.7	602.2	601.2	633.0	656.1	651.7	614.3	586.8	574.7
62.5°	359.4	356.0	364.9	379.1	406.6	386.9	361.5	347.3	342.9
65°	161.5	169.3	173.6	184.6	201.1	196.7	182.4	167.0	169.3
67.5°	70.3	53.8	60.4	68.2	63.8	67.0	59.3	62.7	60.4
70°	34.1	36.3	34.1	42.8	39.6	41.8	34.1	40.7	31.8
72.5°	24.2	20.9	26.3	30.8	26.3	30.8	27.5	20.9	16.5
75°	16.5	9.9	16.5	9.9	12.1	17.6	13.2	17.6	19.7
77.5°	2.2	7.7	3.3	4.4	2.2	5.5	5.5	3.3	9.9
80°	2.2	3.3	2.2	4.4	6.6	1.1	4.4	9.9	0.0
82.5°	7.7	0.0	1.1	0.0	1.1	2.2	0.0	2.2	0.0
85°	12.1	3.3	6.6	15.4	3.3	6.6	9.9	4.4	4.4
87.5°	0.0	0.0	0.0	0.0	0.0	1.1	0.0	3.3	6.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)