

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: P248194

Luminaire Tested: **LD8B200D010 ER8B200927 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248194  
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 ER8B200927 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15138.0 lumens  
Efficiency: N/A  
Efficacy: 67.8 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

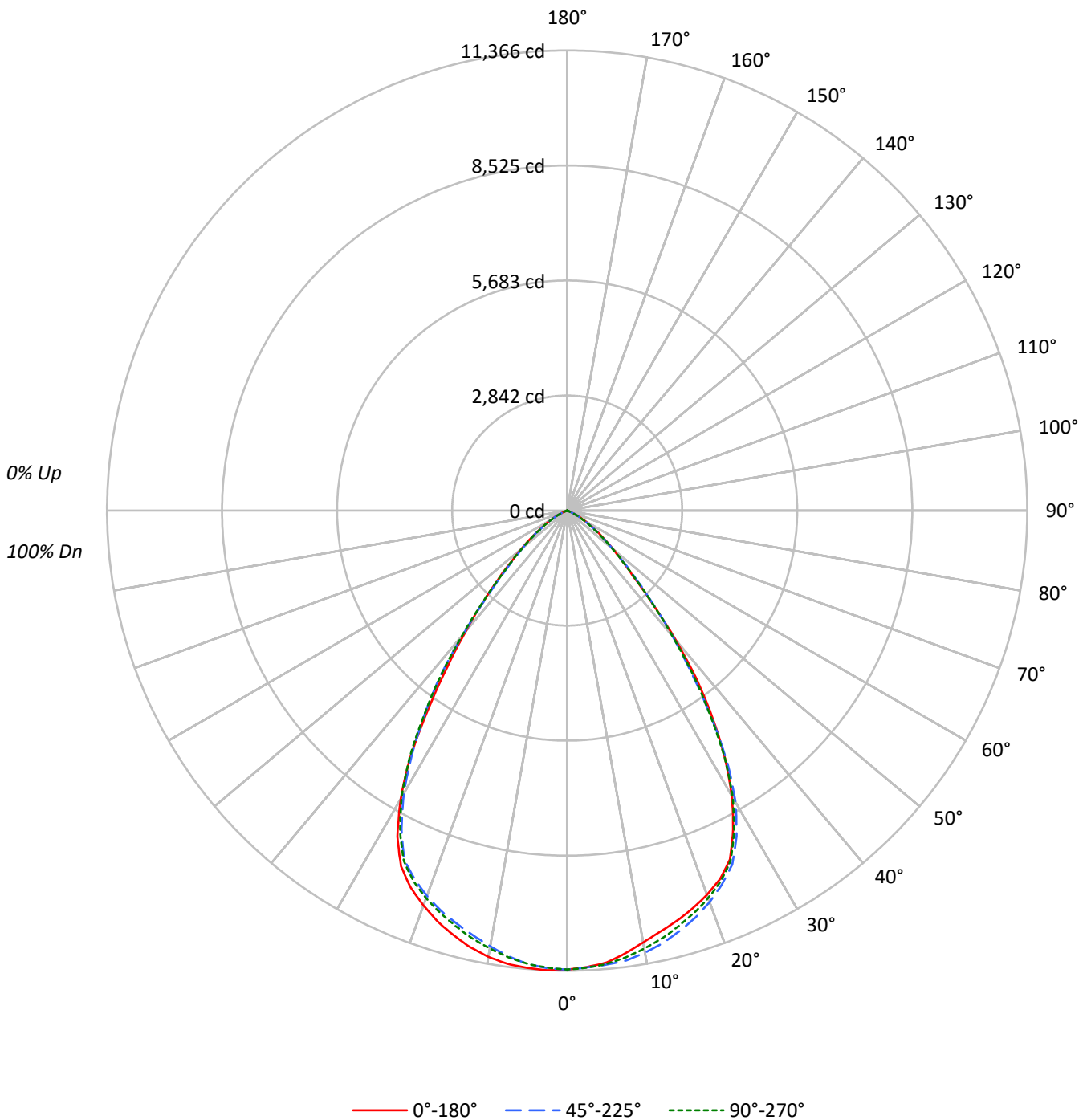
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1066.1	7.0
10°-20°	3003.2	19.8
20°-30°	4330.7	28.6
30°-40°	3803.4	25.1
40°-50°	1923.2	12.7
50°-60°	787.2	5.2
60°-70°	206.9	1.4
70°-80°	14.6	0.1
80°-90°	2.6	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°	8400.0	55.5
0°-40°	12203.4	80.6
0°-60°	14913.8	98.5
0°-90°	15138.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15138.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	11338	11338	11338	11338	11338	
5°	11208	11259	11239	11239	11341	###
15°	10486	10746	10627	10558	10856	2959
25°	9511	9647	9549	9515	9701	4297
35°	6271	6163	6144	6118	5963	3866
45°	2340	2450	2380	2320	2428	1931
55°	890	855	828	826	854	823
65°	224	199	178	176	192	229
75°	6	4	12	4	7	16
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°	11338.1	11338.1	11338.1	11338.1	11338.1	11338.1	11338.1	11338.1	11338.1
2.5°	11286.0	11341.2	11292.3	11321.4	11301.6	11269.4	11314.1	11293.3	11366.3
5°	11207.8	11274.5	11258.9	11295.4	11239.1	11179.7	11239.1	11244.3	11341.2
7.5°	11029.6	11144.2	11209.9	11253.7	11129.6	11032.6	11103.5	11167.2	11292.3
10°	10830.5	10969.1	11087.9	11155.7	10983.7	10842.0	10926.3	11034.8	11192.2
12.5°	10647.0	10800.2	10941.0	11006.7	10825.2	10665.7	10746.0	10880.4	11049.4
15°	10486.5	10612.6	10746.0	10813.7	10627.2	10476.0	10558.4	10682.4	10855.5
17.5°	10303.0	10421.8	10539.6	10592.8	10419.8	10288.4	10363.4	10469.7	10641.7
20°	10097.6	10199.7	10289.4	10351.9	10186.2	10061.1	10128.8	10227.9	10377.0
22.5°	9856.8	9933.9	9992.2	10048.6	9914.1	9790.1	9848.4	9926.6	10084.1
25°	9510.6	9588.8	9647.2	9710.8	9549.2	9442.9	9514.8	9548.2	9701.4
27.5°	8876.8	8975.8	9063.4	9119.7	8935.2	8843.4	8862.2	8917.4	9080.1
30°	8134.5	8182.5	8316.0	8332.6	8176.3	8016.8	8067.8	8126.2	8222.2
32.5°	7252.6	7279.8	7356.8	7365.2	7248.5	7125.4	7126.4	7100.4	7197.4
35°	6270.6	6209.1	6163.2	6194.5	6144.4	6166.3	6118.4	5998.5	5963.1
37.5°	5256.2	5216.6	5015.5	4999.8	5116.5	5187.5	5140.6	4873.6	4854.9
40°	4158.4	4113.7	4038.6	4027.2	4042.8	4083.4	3996.9	3917.7	3893.7
42.5°	3111.9	3135.8	3159.8	3181.7	3136.8	3049.3	3045.2	3030.5	3086.8
45°	2340.3	2391.5	2449.8	2479.0	2380.0	2312.2	2319.5	2351.8	2428.0
47.5°	1850.4	1860.9	1882.7	1907.8	1849.4	1762.9	1785.8	1837.9	1871.3
50°	1469.9	1480.4	1474.1	1470.9	1442.8	1390.7	1423.0	1461.6	1473.1
52.5°	1159.2	1145.7	1134.2	1126.9	1109.2	1088.3	1094.6	1126.9	1144.7
55°	890.3	879.9	854.9	844.4	827.8	822.5	825.6	850.7	853.8
57.5°	669.3	654.6	629.7	609.9	610.9	602.6	606.7	624.5	633.8
60°	503.6	494.1	450.3	453.5	438.9	436.8	446.2	456.6	460.8
62.5°	348.2	351.3	317.9	313.8	306.4	307.6	313.8	322.1	323.2
65°	224.1	210.6	199.1	190.8	178.3	172.0	176.2	199.1	191.8
67.5°	87.5	92.8	75.0	87.5	81.3	68.9	79.2	88.6	84.5
70°	47.9	49.1	40.6	38.6	40.6	37.6	42.8	47.9	36.4
72.5°	30.3	30.3	21.9	21.9	28.1	18.8	21.9	34.4	27.1
75°	6.3	7.3	4.2	2.1	12.5	6.3	4.2	12.5	7.3
77.5°	0.0	7.3	0.0	0.0	0.0	0.0	2.1	2.1	2.1
80°	0.0	0.0	0.0	3.2	0.0	0.0	0.0	2.1	2.1
82.5°	0.0	2.1	0.0	0.0	0.0	0.0	0.0	2.1	0.0
85°	2.1	8.3	2.1	0.0	2.1	2.1	1.0	6.3	2.1
87.5°	13.5	6.3	1.0	6.3	5.2	6.3	7.3	6.3	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)