

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: P247798

Luminaire Tested: **LD8B200D010 ER8B200927 8LBW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247798  
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 ER8B200927 8LBW0LI  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17857.1 lumens  
Efficiency: N/A  
Efficacy: 80.0 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

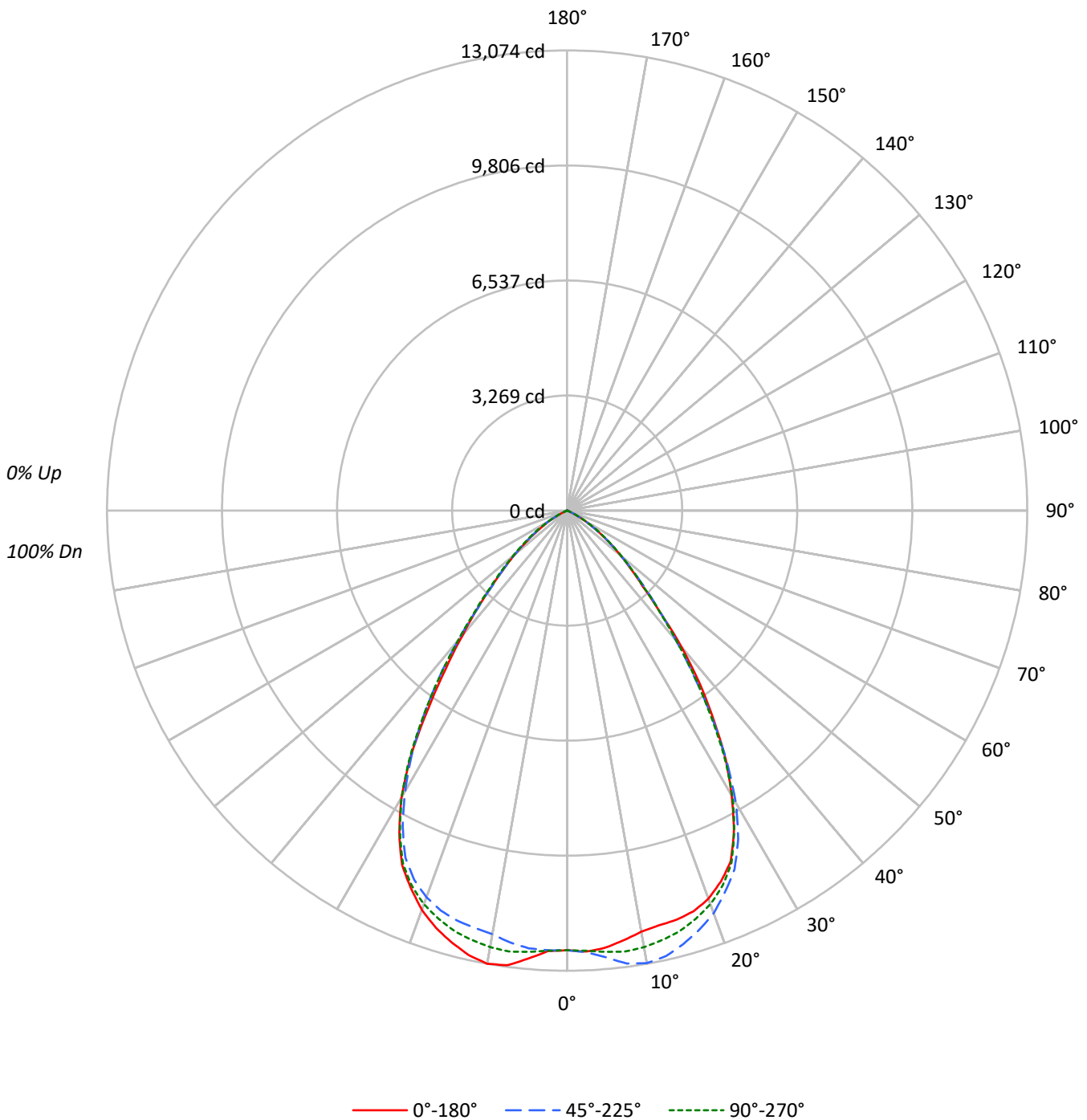
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1203.6	6.7
10°-20°	3485.7	19.5
20°-30°	4999.8	28.0
30°-40°	4412.0	24.7
40°-50°	2442.8	13.7
50°-60°	1076.5	6.0
60°-70°	217.5	1.2
70°-80°	16.3	0.1
80°-90°	3.0	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°	9689.0	54.3
0°-40°	14101.0	79.0
0°-60°	17620.3	98.7
0°-90°	17857.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17857.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	12489	12489	12489	12489	12489	
5°	12467	12741	12585	12483	12779	###
15°	12035	12751	12366	12064	12697	3395
25°	11000	11246	11046	10881	11105	4969
35°	7262	7158	7106	7111	6891	4505
45°	3021	3149	3095	2980	2995	2461
55°	1179	1174	1213	1151	1102	1081
65°	153	165	191	173	160	211
75°	16	16	12	12	19	15
85°	12	6	3	9	4	5
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°	12489.2	12489.2	12489.2	12489.2	12489.2	12489.2	12489.2	12489.2	12489.2
2.5°	12541.3	12489.2	12557.9	12515.2	12518.3	12453.8	12504.8	12553.8	12526.6
5°	12467.2	12515.2	12741.4	12735.2	12585.0	12390.1	12482.9	12706.0	12779.0
7.5°	12314.0	12487.1	12978.1	13022.9	12637.2	12226.5	12377.6	12842.6	13028.2
10°	12147.2	12396.4	13056.3	13143.8	12594.5	12053.4	12224.4	12810.3	13074.0
12.5°	12067.0	12307.7	12965.6	13050.0	12496.5	11970.0	12143.0	12687.2	12932.2
15°	12034.7	12216.0	12750.9	12827.9	12366.1	11923.1	12063.8	12509.0	12696.6
17.5°	11936.6	12061.7	12485.0	12534.0	12159.8	11808.4	11918.9	12259.8	12423.5
20°	11737.6	11820.9	12176.4	12202.4	11901.2	11603.0	11688.5	11957.5	12069.0
22.5°	11409.2	11464.4	11727.1	11736.4	11539.5	11280.9	11351.8	11562.4	11604.0
25°	10999.5	11004.6	11246.5	11201.6	11046.4	10806.5	10880.6	11060.9	11104.8
27.5°	10262.4	10280.1	10525.1	10465.6	10282.2	10073.7	10119.6	10284.3	10328.1
30°	9348.1	9447.2	9588.9	9559.7	9402.3	9192.8	9202.2	9363.7	9410.6
32.5°	8386.9	8357.7	8430.8	8408.8	8327.5	8161.8	8217.0	8258.7	8270.2
35°	7262.1	7238.1	7157.8	7056.7	7105.7	7170.3	7110.9	7019.2	6891.0
37.5°	6181.0	6046.5	5890.2	5784.9	5958.9	6026.7	5968.3	5769.2	5666.0
40°	5034.3	4892.5	4808.0	4781.9	4834.1	4884.1	4818.5	4721.5	4619.4
42.5°	3882.3	3881.2	3902.1	3896.9	3861.4	3789.4	3737.4	3779.1	3762.3
45°	3021.2	3068.1	3149.4	3162.9	3095.2	2989.9	2979.5	3019.0	2995.1
47.5°	2459.2	2475.9	2505.2	2546.8	2508.3	2455.1	2428.0	2440.5	2418.6
50°	1982.8	1987.0	2000.6	2031.9	2017.2	1980.8	1954.7	1939.0	1930.7
52.5°	1557.4	1548.1	1558.6	1568.9	1588.7	1564.8	1542.9	1509.5	1483.4
55°	1179.1	1171.8	1173.8	1182.1	1213.4	1186.3	1150.9	1129.0	1101.9
57.5°	855.9	831.9	837.1	865.2	894.5	883.0	851.7	816.3	782.9
60°	576.4	571.3	570.3	600.5	622.4	618.2	582.8	556.6	545.2
62.5°	340.9	337.7	346.2	359.7	385.8	367.0	343.0	329.4	325.2
65°	153.2	160.5	164.7	175.2	190.8	186.6	173.0	158.5	160.5
67.5°	66.7	51.1	57.4	64.7	60.4	63.6	56.2	59.4	57.4
70°	32.3	34.4	32.3	40.6	37.6	39.6	32.3	38.6	30.3
72.5°	23.0	19.8	25.0	29.1	25.0	29.1	26.1	19.8	15.6
75°	15.6	9.3	15.6	9.3	11.5	16.7	12.5	16.7	18.8
77.5°	2.1	7.3	3.2	4.2	2.1	5.2	5.2	3.2	9.3
80°	2.1	3.2	2.1	4.2	6.3	1.0	4.2	9.3	0.0
82.5°	7.3	0.0	1.0	0.0	1.0	2.1	0.0	2.1	0.0
85°	11.5	3.2	6.3	14.6	3.2	6.3	9.3	4.2	4.2
87.5°	0.0	0.0	0.0	0.0	0.0	1.0	0.0	3.2	6.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)