

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: P250194

Luminaire Tested: **LSR8B150D010 EC8B150927 8LBM0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250194  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13942)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B150D010 EC8B150927 8LBM0WH  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12668.6 lumens  
Efficiency: N/A  
Efficacy: 79.9 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

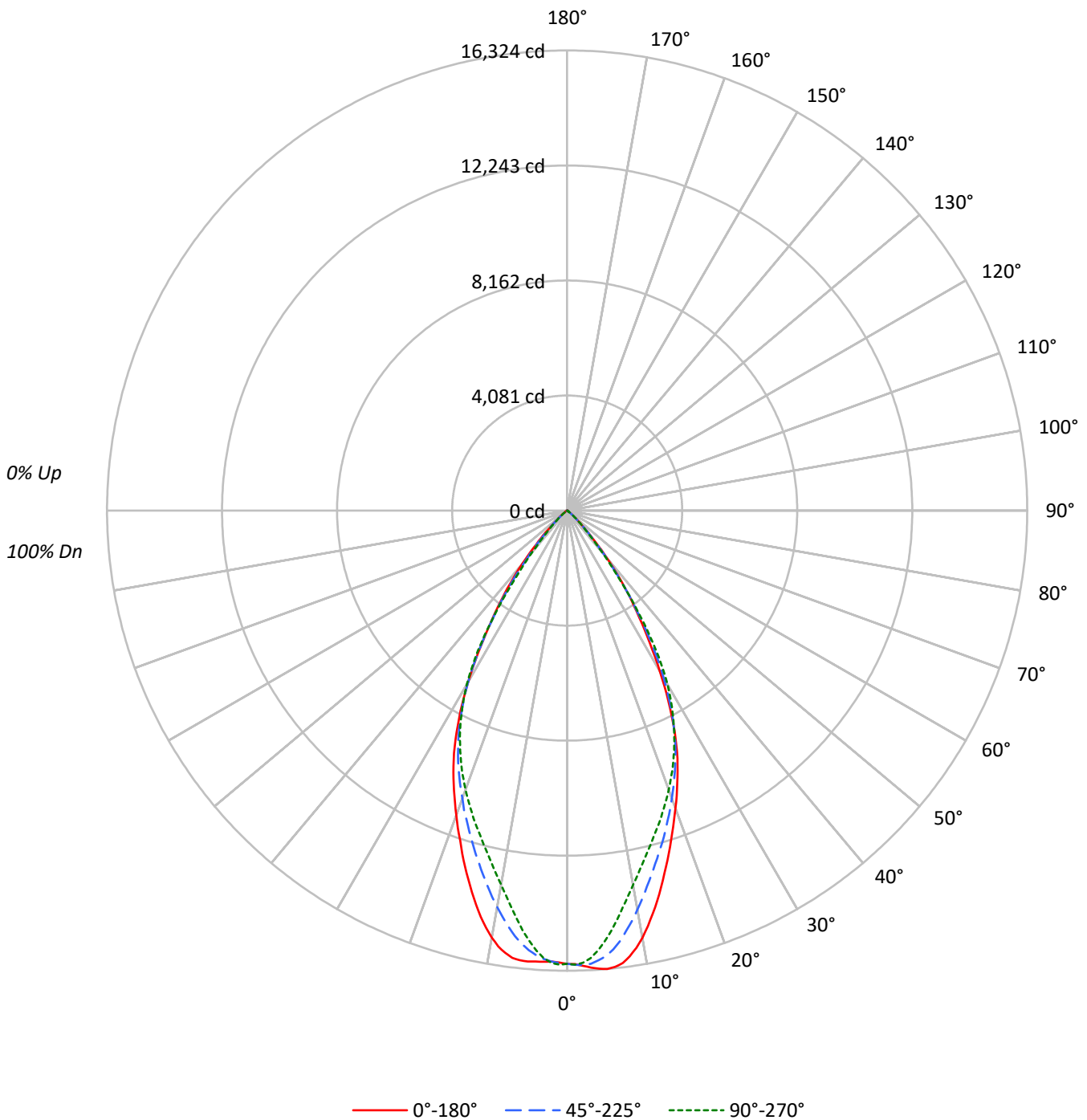
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	106	102	102	102	102	100
1	114	111	108	106	111	109	107	105	105	103	101	101	101	100	98	98	98	97	96	96	94
2	108	103	99	96	106	102	98	95	98	95	93	93	95	93	91	91	93	91	89	89	87
3	103	97	92	88	101	95	91	87	93	89	86	86	90	87	84	84	88	85	83	83	81
4	98	90	85	81	96	89	84	80	87	83	79	79	85	81	78	78	83	80	77	77	76
5	93	85	79	75	91	84	78	74	82	77	74	74	80	76	73	73	79	75	72	72	71
6	88	80	74	69	87	79	73	69	77	72	69	69	76	72	68	68	75	71	68	68	66
7	84	75	69	65	83	74	69	65	73	68	64	64	72	67	64	64	71	67	64	64	62
8	80	71	65	61	79	70	64	61	69	64	60	60	68	63	60	60	67	63	60	60	58
9	76	67	61	57	75	66	61	57	65	60	57	57	64	60	56	56	64	59	56	56	55
10	73	63	57	54	72	63	57	54	62	57	53	53	61	56	53	53	60	56	53	53	52

**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°	1459.5	11.5
10°-20°	3530.1	27.9
20°-30°	4137.4	32.7
30°-40°	2722.2	21.5
40°-50°	710.4	5.6
50°-60°	87.4	0.7
60°-70°	18.1	0.1
70°-80°	3.4	0.0
80°-90°	0.1	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°	9127.1	72.0
0°-40°	11849.3	93.5
0°-60°	12647.0	99.8
0°-90°	12668.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12668.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	16078	16078	16078	16078	16078	
5°	16324	15859	15335	15652	16058	###
15°	13326	12571	11930	12571	13552	3715
25°	9155	9065	8998	9151	9491	4127
35°	4163	4257	4402	4444	4515	2607
45°	809	762	711	825	962	725
55°	63	66	74	74	70	83
65°	23	20	20	16	16	16
75°	0	4	0	0	0	2
85°	0	0	0	0	0	0
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°	16077.6	16077.6	16077.6	16077.6	16077.6	16077.6	16077.6	16077.6	16077.6
1°	16089.3	16112.8	16120.6	16144.1	16108.9	16085.5	16054.2	16030.7	16034.6
2°	16159.7	16171.4	16128.4	16112.8	16050.3	16030.7	16007.2	16003.4	16007.2
3°	16234.0	16210.5	16097.2	15991.6	15897.8	15886.0	15929.1	15991.6	16026.8
4°	16292.6	16230.0	15991.6	15796.1	15647.6	15635.9	15807.9	15968.1	16034.6
5°	16323.9	16210.5	15858.7	15530.3	15334.9	15409.1	15651.6	15936.9	16058.0
6°	16280.9	16112.8	15655.4	15217.6	14994.8	15092.6	15448.3	15862.6	16042.4
7°	16171.4	15956.4	15393.6	14877.6	14603.8	14756.4	15209.8	15737.5	15983.8
8°	15968.1	15710.2	15061.3	14482.7	14213.0	14384.9	14916.7	15557.7	15843.0
9°	15702.3	15417.0	14732.9	14123.1	13833.9	14037.1	14611.7	15319.2	15647.6
10°	15385.7	15080.7	14369.4	13747.8	13485.9	13677.5	14283.3	15041.7	15381.8
11°	15014.4	14721.2	14005.8	13396.0	13145.8	13333.5	13955.1	14709.5	15076.9
12°	14611.7	14342.1	13634.6	13056.0	12821.4	13001.3	13603.3	14365.5	14729.1
13°	14209.1	13939.3	13274.9	12727.6	12512.6	12684.6	13259.2	13990.3	14353.6
14°	13775.2	13528.9	12915.2	12414.8	12219.4	12383.6	12907.5	13611.0	13955.1
15°	13325.7	13130.2	12571.2	12113.9	11930.2	12086.6	12571.2	13220.1	13552.4
16°	12903.5	12723.6	12239.0	11816.8	11664.4	11789.4	12231.2	12829.3	13145.8
17°	12473.4	12309.3	11906.7	11523.6	11386.8	11508.1	11883.3	12434.5	12719.8
18°	12043.6	11906.7	11543.2	11214.9	11093.7	11203.1	11539.4	12035.7	12293.7
19°	11644.8	11519.7	11211.0	10933.4	10824.0	10921.6	11238.3	11652.6	11910.6
20°	11234.4	11132.7	10863.0	10636.3	10534.6	10624.5	10870.9	11273.5	11500.2
21°	10839.6	10749.6	10515.2	10323.6	10241.4	10315.8	10542.5	10906.1	11105.3
22°	10429.2	10378.4	10167.3	10007.0	9952.2	9999.1	10206.3	10519.1	10706.7
23°	10026.4	9979.6	9819.3	9686.5	9639.4	9686.5	9870.2	10151.6	10319.7
24°	9620.0	9569.1	9451.9	9365.8	9326.8	9365.8	9522.2	9760.7	9920.9
25°	9154.8	9147.0	9064.9	9018.0	8998.4	9041.4	9151.0	9358.1	9490.9
26°	8709.2	8685.7	8662.3	8654.4	8658.3	8681.7	8771.7	8928.1	9033.6
27°	8162.0	8197.2	8232.3	8279.2	8294.8	8314.4	8357.4	8470.7	8549.0
28°	7638.1	7704.6	7790.5	7884.3	7927.4	7927.4	7931.2	7993.8	8060.3
29°	7118.2	7188.5	7325.4	7466.2	7524.8	7516.9	7485.6	7513.0	7552.1
30°	6575.0	6664.8	6848.6	7032.3	7118.2	7086.9	7028.3	7001.0	7024.4
31°	6043.3	6133.2	6336.4	6535.8	6649.1	6614.0	6512.4	6492.8	6504.5
32°	5535.1	5625.0	5812.7	6023.7	6152.7	6105.8	6000.3	5969.0	5972.8
33°	5042.6	5112.9	5284.9	5480.4	5586.0	5574.2	5488.2	5449.2	5453.0
34°	4577.4	4636.0	4764.9	4913.7	5015.2	5011.3	4948.8	4952.7	4964.4
35°	4163.1	4194.3	4256.8	4339.0	4401.6	4436.7	4444.4	4475.7	4514.8
37.5°	3146.7	3158.4	3084.2	3002.1	2986.4	3088.1	3264.0	3416.5	3475.1
40°	2181.3	2153.8	2060.0	1915.4	1872.3	1985.8	2208.6	2423.6	2501.7
42.5°	1356.4	1344.7	1286.1	1176.6	1137.5	1204.0	1372.0	1536.3	1614.4
45°	809.2	793.5	762.2	719.2	711.4	738.8	824.7	918.6	961.6
47.5°	465.1	461.2	441.7	426.2	422.2	441.7	480.8	535.5	547.3
50°	254.0	250.2	246.3	246.3	246.3	258.0	277.5	293.2	301.0
52.5°	125.1	129.0	125.1	129.0	133.0	140.7	136.8	152.4	152.4
55°	62.6	58.6	66.5	74.4	74.4	74.4	74.4	74.4	70.4
57.5°	46.9	50.7	43.1	46.9	43.1	43.1	39.2	43.1	46.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	31.3	27.3	31.3	35.2	39.2	35.2	27.3	31.3	35.2
62.5°	15.6	15.6	15.6	23.4	35.2	27.3	23.4	19.5	19.5
65°	23.4	15.6	19.5	23.4	19.5	19.5	15.6	19.5	15.6
67.5°	11.8	19.5	11.8	7.9	11.8	15.6	11.8	7.9	7.9
70°	0.0	3.9	3.9	11.8	11.8	11.8	11.8	7.9	7.9
72.5°	3.9	3.9	3.9	7.9	3.9	7.9	3.9	3.9	7.9
75°	0.0	0.0	3.9	3.9	0.0	3.9	0.0	0.0	0.0
77.5°	3.9	0.0	3.9	3.9	0.0	0.0	0.0	3.9	0.0
80°	0.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	3.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)