

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: P250201

Luminaire Tested: **LSR8B150D010 EC8B1509730 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250201
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 EC8B1509730 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11914.0 lumens
Efficiency: N/A
Efficacy: 75.2 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

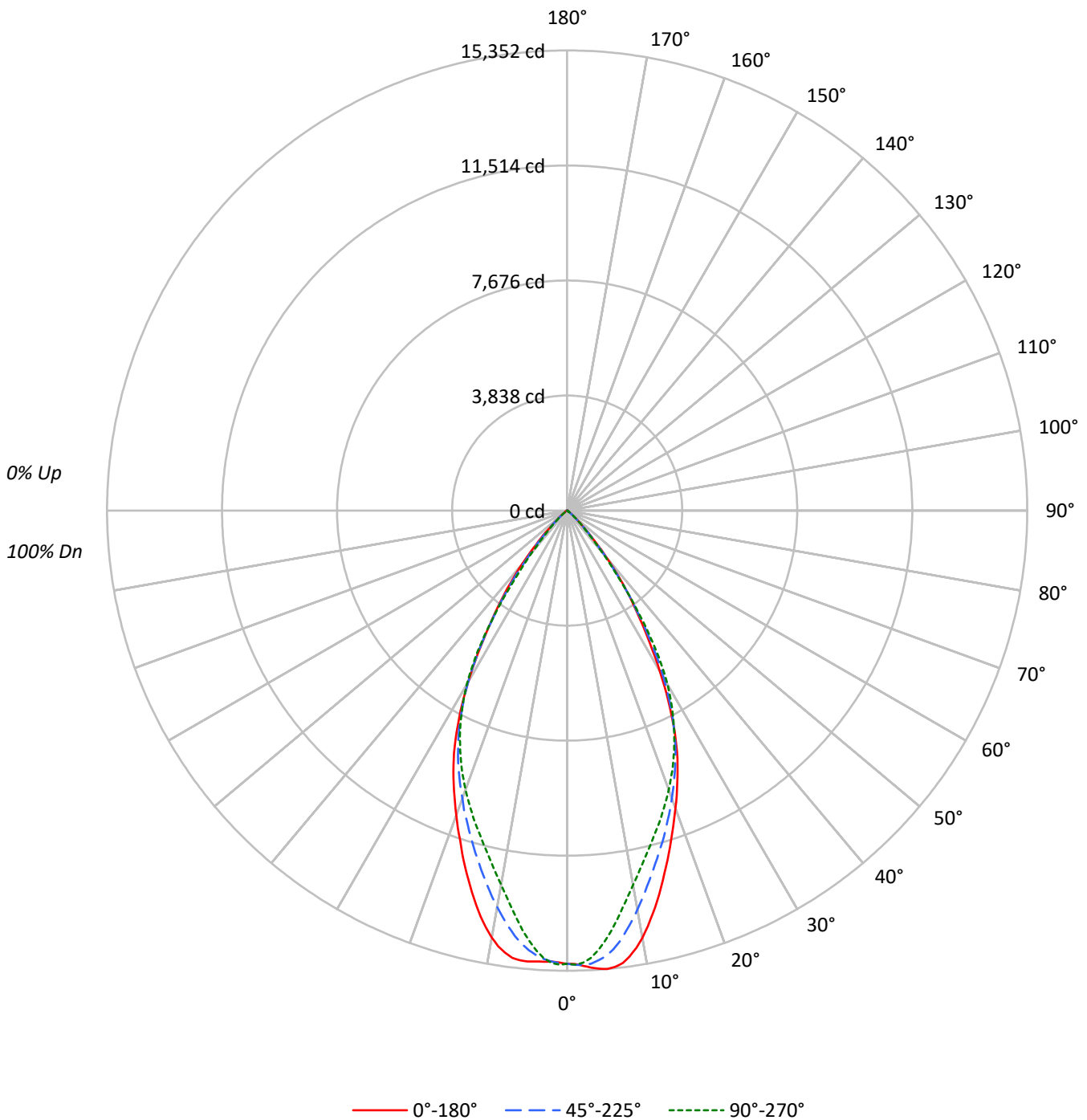
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94	94	94	94			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87	87	87	87			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81	81	81	81			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76	76	76	76			
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71	71	71	71			
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66	66	66	66			
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62	62	62	62			
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58	58	58	58			
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55	55	55	55			
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52	52	52	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°	1372.6	11.5
10°-20°	3319.8	27.9
20°-30°	3891.0	32.7
30°-40°	2560.1	21.5
40°-50°	668.1	5.6
50°-60°	82.2	0.7
60°-70°	17.1	0.1
70°-80°	3.2	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°	8583.4	72.0
0°-40°	11143.5	93.5
0°-60°	11893.7	99.8
0°-90°	11914.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11914.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15120	15120	15120	15120	15120	
5°	15352	14914	14422	14719	15102	###
15°	12532	11822	11220	11822	12745	3493
25°	8610	8525	8462	8606	8926	3881
35°	3915	4003	4139	4180	4246	2451
45°	761	717	669	776	904	682
55°	59	62	70	70	66	78
65°	22	18	18	15	15	15
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°	15119.9	15119.9	15119.9	15119.9	15119.9	15119.9	15119.9	15119.9	15119.9
1°	15130.9	15153.0	15160.3	15182.4	15149.3	15127.3	15097.9	15075.8	15079.5
2°	15197.1	15208.2	15167.7	15153.0	15094.2	15075.8	15053.7	15050.0	15053.7
3°	15267.0	15244.9	15138.3	15039.1	14950.8	14939.8	14980.2	15039.1	15072.1
4°	15322.1	15263.3	15039.1	14855.2	14715.5	14704.5	14866.3	15016.9	15079.5
5°	15351.5	15244.9	14914.0	14605.2	14421.5	14491.3	14719.2	14987.5	15101.5
6°	15311.1	15153.0	14722.9	14311.2	14101.6	14193.5	14528.1	14917.7	15086.8
7°	15208.2	15006.0	14476.6	13991.3	13734.0	13877.4	14303.8	14800.1	15031.7
8°	15016.9	14774.3	14164.1	13620.0	13366.4	13528.1	14028.1	14631.0	14899.4
9°	14767.0	14498.7	13855.3	13281.8	13009.8	13201.0	13741.4	14406.7	14715.5
10°	14469.2	14182.5	13513.4	12929.0	12682.7	12862.8	13432.6	14145.7	14465.6
11°	14120.0	13844.3	13171.6	12598.1	12362.8	12539.3	13123.8	13833.3	14178.8
12°	13741.4	13487.7	12822.4	12278.3	12057.7	12226.8	12793.0	13509.8	13851.7
13°	13362.7	13109.0	12484.2	11969.5	11767.3	11929.0	12469.4	13156.9	13498.7
14°	12954.7	12723.1	12146.0	11675.3	11491.6	11645.9	12138.6	12800.2	13123.8
15°	12531.9	12348.1	11822.4	11392.3	11219.6	11366.6	11822.4	12432.6	12745.1
16°	12134.9	11965.8	11509.9	11112.9	10969.6	11087.2	11502.6	12065.1	12362.8
17°	11730.5	11576.1	11197.4	10837.2	10708.6	10822.5	11175.4	11693.8	11962.1
18°	11326.2	11197.4	10855.6	10546.8	10432.9	10535.8	10852.0	11318.8	11561.4
19°	10951.2	10833.5	10543.2	10282.1	10179.2	10271.1	10568.9	10958.5	11201.1
20°	10565.2	10469.6	10215.9	10002.7	9907.1	9991.7	10223.3	10602.0	10815.2
21°	10193.9	10109.3	9888.8	9708.6	9631.4	9701.3	9914.5	10256.4	10443.9
22°	9807.9	9760.2	9561.6	9410.9	9359.4	9403.5	9598.3	9892.5	10068.9
23°	9429.2	9385.2	9234.4	9109.5	9065.3	9109.5	9282.3	9546.9	9705.0
24°	9047.0	8999.2	8888.9	8808.0	8771.3	8808.0	8955.0	9179.3	9330.0
25°	8609.5	8602.2	8525.0	8480.8	8462.5	8502.9	8605.8	8800.7	8925.6
26°	8190.4	8168.3	8146.3	8138.9	8142.6	8164.6	8249.2	8396.3	8495.6
27°	7675.8	7708.9	7741.9	7786.1	7800.7	7819.2	7859.5	7966.1	8039.7
28°	7183.1	7245.6	7326.5	7414.7	7455.2	7455.2	7458.8	7517.6	7580.2
29°	6694.3	6760.4	6889.1	7021.4	7076.5	7069.2	7039.7	7065.5	7102.3
30°	6183.3	6267.8	6440.6	6613.4	6694.3	6664.8	6609.7	6584.0	6606.0
31°	5683.3	5767.9	5959.0	6146.5	6253.1	6220.0	6124.4	6106.1	6117.1
32°	5205.4	5290.0	5466.4	5664.9	5786.2	5742.1	5642.8	5613.4	5617.1
33°	4742.2	4808.4	4970.1	5154.0	5253.2	5242.1	5161.3	5124.6	5128.2
34°	4304.8	4359.9	4481.2	4620.9	4716.5	4712.8	4653.9	4657.6	4668.7
35°	3915.1	3944.5	4003.3	4080.5	4139.3	4172.4	4179.7	4209.2	4245.9
37.5°	2959.3	2970.3	2900.5	2823.2	2808.6	2904.2	3069.6	3213.0	3268.1
40°	2051.3	2025.6	1937.3	1801.3	1760.8	1867.5	2077.0	2279.2	2352.7
42.5°	1275.7	1264.6	1209.5	1106.5	1069.8	1132.3	1290.3	1444.8	1518.2
45°	761.0	746.2	716.8	676.4	669.0	694.8	775.6	863.9	904.3
47.5°	437.4	433.8	415.4	400.7	397.0	415.4	452.2	503.6	514.7
50°	238.9	235.3	231.6	231.6	231.6	242.6	261.0	275.7	283.1
52.5°	117.7	121.3	117.7	121.3	125.0	132.3	128.6	143.4	143.4
55°	58.8	55.1	62.5	69.9	69.9	69.9	69.9	69.9	66.2
57.5°	44.1	47.8	40.5	44.1	40.5	40.5	36.8	40.5	44.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	29.4	25.7	29.4	33.1	36.8	33.1	25.7	29.4	33.1
62.5°	14.7	14.7	14.7	22.0	33.1	25.7	22.0	18.4	18.4
65°	22.0	14.7	18.4	22.0	18.4	18.4	14.7	18.4	14.7
67.5°	11.1	18.4	11.1	7.4	11.1	14.7	11.1	7.4	7.4
70°	0.0	3.7	3.7	11.1	11.1	11.1	11.1	7.4	7.4
72.5°	3.7	3.7	3.7	7.4	3.7	7.4	3.7	3.7	7.4
75°	0.0	0.0	3.7	3.7	0.0	3.7	0.0	0.0	0.0
77.5°	3.7	0.0	3.7	3.7	0.0	0.0	0.0	3.7	0.0
80°	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	3.7
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)