

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: P250180

Luminaire Tested: **LSR8B150D010 EC8B150940 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250180
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 EC8B150940 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14405.0 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

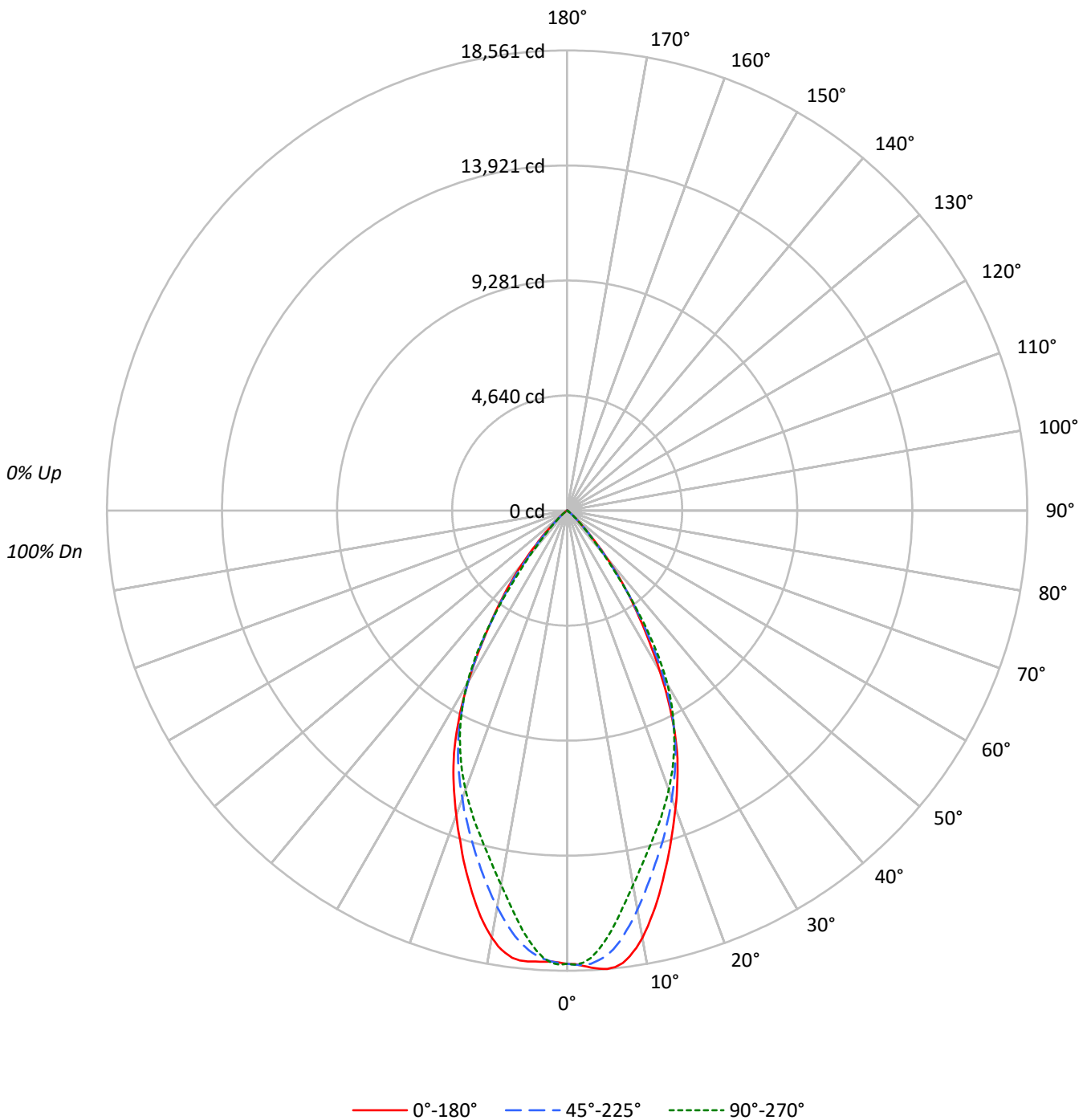
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250180

CATALOG NUMBER: LSR8B150D010 EC8B150940 8LBM0WH

Luminous Intensity Polar Plot





TEST NUMBER: P250180

CATALOG NUMBER: LSR8B150D010 EC8B150940 8LBM0WH

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	563725	563725	563725
5°	574548	539737	565188
10°	547788	480151	547647
15°	483717	433063	491947
20°	419189	393078	429106
25°	354177	348128	367181
30°	266199	288197	284398
35°	178196	188402	193254
40°	99838	85701	114506
45°	40125	35275	47682
50°	13859	13432	16421
55°	3822	4543	4301
60°	2196	2744	2467
65°	1941	1620	1291
70°	0	1208	802
75°	0	0	0
80°	0	0	799
85°	0	0	0



TEST NUMBER: P250180

CATALOG NUMBER: LSR8B150D010 EC8B150940 8LBM0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1659.6	11.5
10°-20°	4013.9	27.9
20°-30°	4704.5	32.7
30°-40°	3095.3	21.5
40°-50°	807.7	5.6
50°-60°	99.4	0.7
60°-70°	20.6	0.1
70°-80°	3.9	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°	10378.0	72.0
0°-40°	13473.4	93.5
0°-60°	14380.4	99.8
0°-90°	14405.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14405.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18281	18281	18281	18281	18281	
5°	18561	18032	17437	17797	18259	###
15°	15152	14294	13565	14294	15410	4224
25°	10410	10307	10232	10405	10792	4693
35°	4734	4840	5005	5054	5134	2964
45°	920	867	809	938	1093	825
55°	71	76	84	84	80	94
65°	27	22	22	18	18	19
75°	0	4	0	0	0	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P250180

CATALOG NUMBER: LSR8B150D010 EC8B150940 8LBM0WH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	18281.2	18281.2	18281.2	18281.2	18281.2	18281.2	18281.2	18281.2	18281.2
1°	18294.5	18321.3	18330.1	18356.8	18316.8	18290.1	18254.6	18227.8	18232.3
2°	18374.5	18387.9	18339.0	18321.3	18250.1	18227.8	18201.2	18196.7	18201.2
3°	18459.0	18432.3	18303.4	18183.5	18076.8	18063.4	18112.3	18183.5	18223.4
4°	18525.7	18454.6	18183.5	17961.2	17792.3	17779.0	17974.5	18156.7	18232.3
5°	18561.3	18432.3	18032.3	17658.9	17436.7	17521.1	17796.7	18121.1	18258.9
6°	18512.3	18321.3	17801.2	17303.4	17050.0	17161.2	17565.6	18036.7	18241.2
7°	18387.9	18143.4	17503.4	16916.7	16605.5	16778.9	17294.5	17894.5	18174.5
8°	18156.7	17863.4	17125.6	16467.7	16161.0	16356.6	16961.2	17690.0	18014.6
9°	17854.5	17530.1	16752.2	16058.8	15729.9	15961.0	16614.4	17418.9	17792.3
10°	17494.5	17147.8	16338.9	15632.2	15334.4	15552.1	16241.1	17103.3	17490.0
11°	17072.2	16738.9	15925.5	15232.2	14947.7	15161.0	15867.7	16725.6	17143.3
12°	16614.4	16307.8	15503.3	14845.4	14578.8	14783.2	15467.7	16334.4	16747.8
13°	16156.6	15849.9	15094.4	14472.1	14227.6	14423.1	15076.5	15907.8	16321.0
14°	15663.3	15383.2	14685.5	14116.4	13894.3	14080.9	14676.5	15476.5	15867.7
15°	15152.1	14929.8	14294.3	13774.2	13565.4	13743.1	14294.3	15032.1	15409.9
16°	14672.1	14467.6	13916.4	13436.4	13263.1	13405.3	13907.6	14587.7	14947.7
17°	14183.1	13996.5	13538.6	13103.1	12947.5	13085.3	13512.0	14138.7	14463.2
18°	13694.3	13538.6	13125.4	12752.0	12614.2	12738.6	13120.9	13685.3	13978.7
19°	13240.9	13098.6	12747.5	12431.9	12307.5	12418.6	12778.6	13249.8	13543.1
20°	12774.2	12658.6	12351.9	12094.1	11978.5	12080.8	12360.8	12818.7	13076.4
21°	12325.2	12223.0	11956.3	11738.5	11645.2	11729.7	11987.5	12400.8	12627.5
22°	11858.6	11800.8	11560.8	11378.5	11316.3	11369.6	11605.2	11960.8	12174.2
23°	11400.7	11347.4	11165.2	11014.1	10960.7	11014.1	11223.0	11543.0	11734.2
24°	10938.5	10880.8	10747.4	10649.5	10605.2	10649.5	10827.4	11098.5	11280.8
25°	10409.6	10400.7	10307.4	10254.0	10231.8	10280.6	10405.2	10640.7	10791.8
26°	9902.8	9876.2	9849.5	9840.6	9845.1	9871.7	9974.0	10151.8	10271.8
27°	9280.6	9320.7	9360.6	9414.0	9431.7	9454.0	9502.8	9631.7	9720.7
28°	8685.0	8760.6	8858.3	8965.0	9014.0	9014.0	9018.3	9089.4	9165.0
29°	8093.9	8173.8	8329.5	8489.4	8556.1	8547.2	8511.6	8542.7	8587.2
30°	7476.1	7578.3	7787.2	7996.1	8093.9	8058.3	7991.7	7960.6	7987.2
31°	6871.6	6973.8	7204.9	7431.6	7560.5	7520.5	7404.9	7382.7	7396.0
32°	6293.8	6396.0	6609.3	6849.3	6996.0	6942.7	6822.7	6787.1	6791.6
33°	5733.7	5813.7	6009.3	6231.6	6351.5	6338.2	6240.4	6196.0	6200.4
34°	5204.8	5271.5	5418.1	5587.1	5702.6	5698.1	5627.0	5631.5	5644.8
35°	4733.7	4769.2	4840.3	4933.7	5004.8	5044.7	5053.6	5089.2	5133.7
37.5°	3578.0	3591.3	3506.9	3413.5	3395.8	3511.4	3711.4	3884.7	3951.4
40°	2480.2	2449.1	2342.4	2177.9	2129.0	2258.0	2511.3	2755.8	2844.6
42.5°	1542.4	1529.0	1462.3	1337.9	1293.4	1369.0	1560.1	1746.8	1835.7
45°	920.1	902.2	866.7	817.8	808.9	840.0	937.8	1044.5	1093.4
47.5°	528.9	524.5	502.2	484.5	480.0	502.2	546.7	608.9	622.3
50°	288.9	284.5	280.0	280.0	280.0	293.3	315.6	333.3	342.3
52.5°	142.3	146.7	142.3	146.7	151.2	160.0	155.5	173.4	173.4
55°	71.1	66.7	75.6	84.5	84.5	84.5	84.5	84.5	80.0
57.5°	53.3	57.8	48.9	53.3	48.9	48.9	44.5	48.9	53.3



TEST NUMBER: P250180

CATALOG NUMBER: LSR8B150D010 EC8B150940 8LBM0WH

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	35.6	31.1	35.6	40.0	44.5	40.0	31.1	35.6	40.0
62.5°	17.7	17.7	17.7	26.6	40.0	31.1	26.6	22.2	22.2
65°	26.6	17.7	22.2	26.6	22.2	22.2	17.7	22.2	17.7
67.5°	13.4	22.2	13.4	8.9	13.4	17.7	13.4	8.9	8.9
70°	0.0	4.5	4.5	13.4	13.4	13.4	13.4	8.9	8.9
72.5°	4.5	4.5	4.5	8.9	4.5	8.9	4.5	4.5	8.9
75°	0.0	0.0	4.5	4.5	0.0	4.5	0.0	0.0	0.0
77.5°	4.5	0.0	4.5	4.5	0.0	0.0	0.0	4.5	0.0
80°	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	4.5
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)