

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: P247799

Luminaire Tested: **LSR8B150D010 EC8B150930 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247799
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: LSR8B150D010 EC8B150930 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14144.8 lumens
Efficiency: N/A
Efficacy: 89.2 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

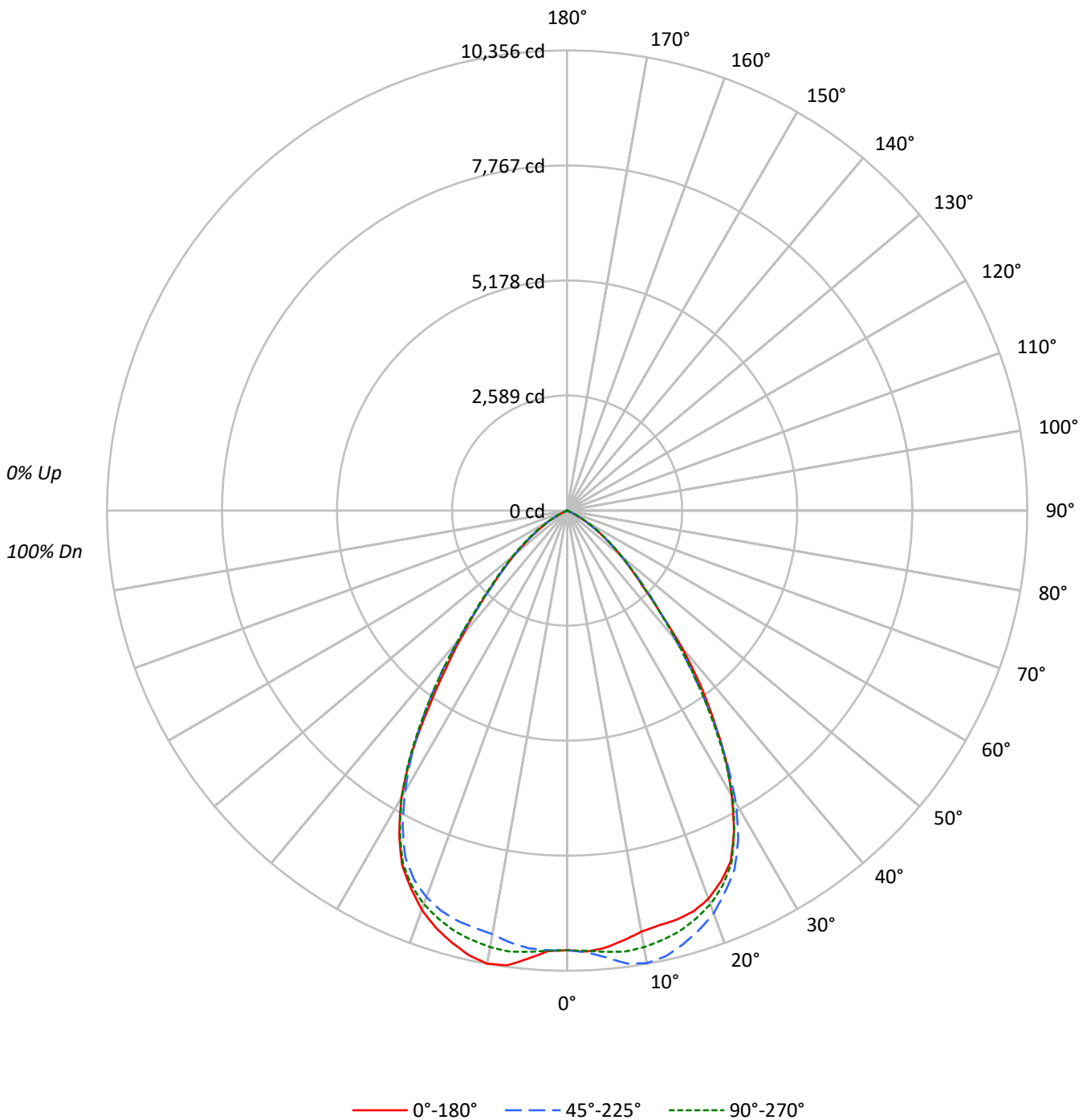
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92	92	92	92			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	90	87	85	83	83	83	83			
3	100	92	86	82	97	91	85	81	88	84	80	86	82	79	83	80	77	76	76	76	76			
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69	69	69	69			
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63	63	63	63			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57	57	57	57			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53	53	53	53			
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	54	50	48	48	48	48			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45	45	45	45			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41	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°	953.3	6.7
10°-20°	2761.0	19.5
20°-30°	3960.4	28.0
30°-40°	3494.8	24.7
40°-50°	1935.0	13.7
50°-60°	852.7	6.0
60°-70°	172.3	1.2
70°-80°	12.9	0.1
80°-90°	2.4	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°	7674.8	54.3
0°-40°	11169.5	79.0
0°-60°	13957.2	98.7
0°-90°	14144.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14144.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9893	9893	9893	9893	9893	
5°	9875	10093	9969	9888	10122	934
15°	9533	10100	9795	9556	10057	2689
25°	8713	8908	8750	8619	8796	3936
35°	5752	5670	5628	5633	5458	3568
45°	2393	2495	2452	2360	2372	1949
55°	934	930	961	912	873	856
65°	121	130	151	137	127	167
75°	12	12	9	10	15	12
85°	9	5	2	7	3	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°	9892.8	9892.8	9892.8	9892.8	9892.8	9892.8	9892.8	9892.8	9892.8
2.5°	9934.1	9892.8	9947.3	9913.5	9915.9	9864.7	9905.2	9943.9	9922.5
5°	9875.4	9913.5	10092.6	10087.7	9968.7	9814.4	9887.8	10064.6	10122.3
7.5°	9754.0	9891.1	10280.0	10315.6	10010.1	9684.7	9804.4	10172.7	10319.7
10°	9621.9	9819.3	10342.0	10411.4	9976.2	9547.6	9683.0	10147.1	10356.0
12.5°	9558.3	9749.1	10270.2	10337.1	9898.5	9481.5	9618.6	10049.7	10243.7
15°	9532.8	9676.5	10100.0	10161.2	9795.3	9444.4	9555.9	9908.4	10057.1
17.5°	9455.1	9554.2	9889.5	9928.2	9631.9	9353.5	9441.1	9711.1	9840.7
20°	9297.3	9363.5	9645.1	9665.7	9427.0	9190.9	9258.6	9471.7	9560.0
22.5°	9037.3	9081.0	9289.2	9296.6	9140.5	8935.7	8991.9	9158.7	9191.6
25°	8712.7	8716.9	8908.5	8872.9	8749.9	8560.0	8618.6	8761.5	8796.2
27.5°	8128.9	8142.9	8337.0	8289.9	8144.6	7979.5	8015.8	8146.3	8180.9
30°	7404.8	7483.1	7595.4	7572.4	7447.7	7281.7	7289.1	7417.1	7454.3
32.5°	6643.4	6620.2	6678.0	6660.6	6596.3	6465.0	6508.8	6541.8	6550.9
35°	5752.3	5733.4	5669.8	5589.6	5628.4	5679.7	5632.6	5559.9	5458.4
37.5°	4896.0	4789.5	4665.6	4582.2	4720.1	4773.8	4727.6	4569.9	4488.0
40°	3987.6	3875.4	3808.5	3787.9	3829.1	3868.8	3816.8	3739.9	3659.1
42.5°	3075.1	3074.3	3090.8	3086.8	3058.6	3001.7	2960.4	2993.4	2980.2
45°	2393.1	2430.2	2494.7	2505.4	2451.7	2368.3	2360.0	2391.4	2372.5
47.5°	1948.0	1961.2	1984.3	2017.4	1986.9	1944.7	1923.2	1933.2	1915.8
50°	1570.6	1573.9	1584.6	1609.4	1597.9	1569.0	1548.3	1536.0	1529.4
52.5°	1233.7	1226.3	1234.6	1242.7	1258.4	1239.5	1222.1	1195.8	1175.0
55°	933.9	928.2	929.9	936.5	961.1	939.7	911.7	894.3	872.8
57.5°	678.0	658.9	663.1	685.4	708.5	699.4	674.6	646.6	620.1
60°	456.7	452.5	451.7	475.6	493.0	489.7	461.6	441.0	431.9
62.5°	270.0	267.6	274.2	284.8	305.6	290.7	271.7	261.0	257.6
65°	121.4	127.1	130.5	138.8	151.1	147.9	137.1	125.6	127.1
67.5°	52.8	40.5	45.4	51.2	47.9	50.3	44.6	47.1	45.4
70°	25.6	27.2	25.6	32.2	29.7	31.4	25.6	30.6	24.0
72.5°	18.2	15.7	19.8	23.1	19.8	23.1	20.6	15.7	12.3
75°	12.3	7.4	12.3	7.4	9.1	13.2	9.9	13.2	14.9
77.5°	1.7	5.8	2.5	3.3	1.7	4.1	4.1	2.5	7.4
80°	1.7	2.5	1.7	3.3	4.9	0.8	3.3	7.4	0.0
82.5°	5.8	0.0	0.8	0.0	0.8	1.7	0.0	1.7	0.0
85°	9.1	2.5	4.9	11.5	2.5	4.9	7.4	3.3	3.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.0	2.5	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)