

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: P248123

Luminaire Tested: **LSR8B150D010 EC8B1509730 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248123
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-72)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B1509730 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12294.0 lumens
Efficiency: N/A
Efficacy: 77.6 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

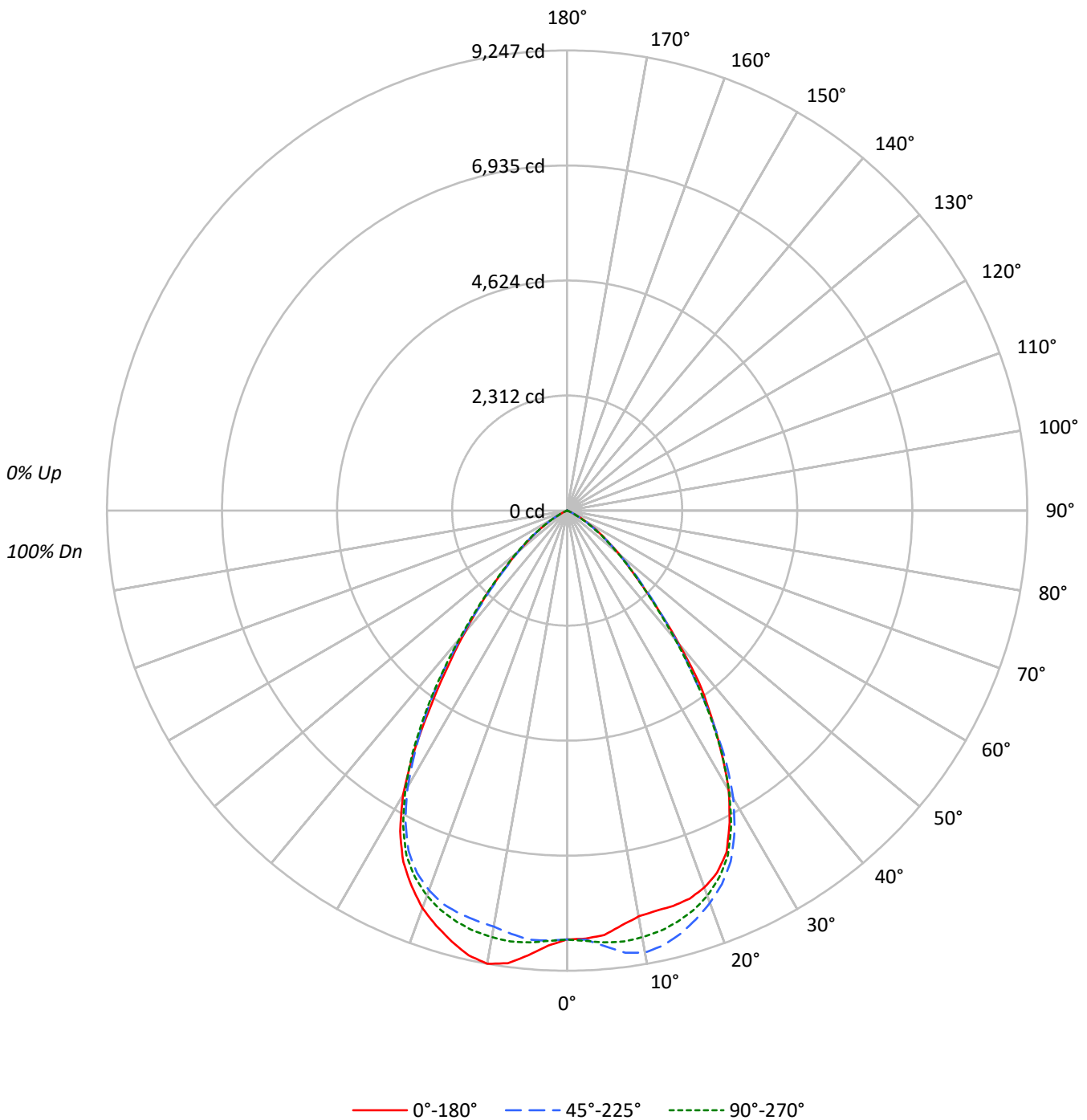
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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	100	100	98	97	96	95	94	92	92	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84	84	84
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76	76	76
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71	69	69	69
5	88	78	72	67	86	77	71	66	76	70	66	74	69	65	72	68	65	63	63	63
6	83	72	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58	58	58
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53	53	53
8	73	63	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49	49	49
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45	45	45
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42	42	42

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°	833.7	6.8
10°-20°	2417.8	19.7
20°-30°	3472.1	28.2
30°-40°	3069.1	25.0
40°-50°	1680.0	13.7
50°-60°	691.6	5.6
60°-70°	123.9	1.0
70°-80°	5.4	0.0
80°-90°	0.4	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°	6723.5	54.7
0°-40°	9792.7	79.7
0°-60°	12164.3	98.9
0°-90°	12294.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12294.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8619	8619	8619	8619	8619	
5°	8560	8790	8710	8657	8970	806
15°	8224	8805	8558	8381	8963	2323
25°	7575	7780	7646	7545	7792	3426
35°	5045	5000	4971	4903	4756	3130
45°	2134	2197	2118	2027	2086	1717
55°	818	780	745	720	704	742
65°	131	102	94	76	78	153
75°	7	3	4	4	4	10
85°	2	2	0	4	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°	8618.7	8618.7	8618.7	8618.7	8618.7	8618.7	8618.7	8618.7	8618.7
2.5°	8607.6	8623.1	8630.4	8669.5	8656.2	8637.8	8648.1	8679.8	8748.3
5°	8560.5	8643.0	8790.3	8840.4	8710.0	8596.6	8657.0	8830.1	8970.0
7.5°	8405.0	8612.8	8961.2	9037.1	8735.0	8474.3	8579.6	8953.1	9174.1
10°	8280.5	8538.4	9017.2	9129.9	8704.8	8367.5	8490.5	8947.2	9247.0
12.5°	8238.6	8476.5	8946.5	9073.9	8654.0	8329.9	8438.2	8861.0	9154.2
15°	8223.8	8414.6	8805.0	8907.4	8557.5	8293.1	8380.7	8720.3	8963.4
17.5°	8178.1	8320.3	8611.3	8694.5	8424.9	8220.1	8287.9	8551.6	8746.8
20°	8060.3	8181.1	8390.3	8448.5	8235.6	8075.0	8118.5	8316.6	8502.3
22.5°	7876.1	7954.2	8123.6	8151.6	7982.9	7854.8	7882.0	8030.1	8165.6
25°	7574.8	7629.4	7779.6	7787.0	7645.6	7533.6	7544.6	7668.4	7792.2
27.5°	7068.0	7171.2	7281.7	7313.3	7135.8	7004.7	7038.6	7121.1	7266.2
30°	6492.7	6568.6	6676.9	6652.6	6509.7	6391.8	6405.8	6479.5	6587.7
32.5°	5775.2	5855.5	5910.8	5860.7	5788.5	5683.2	5651.5	5683.2	5712.6
35°	5045.2	5072.5	5000.3	4971.6	4970.8	4938.4	4903.1	4807.3	4755.7
37.5°	4348.4	4262.9	4133.3	4078.0	4141.4	4220.2	4114.1	3988.9	3924.1
40°	3485.8	3488.0	3406.9	3349.5	3373.1	3346.5	3300.1	3219.8	3200.7
42.5°	2724.8	2732.9	2758.7	2726.3	2669.6	2583.4	2557.6	2561.3	2618.0
45°	2134.0	2150.2	2196.7	2192.2	2117.8	2063.3	2027.2	2078.1	2086.2
47.5°	1697.2	1720.0	1739.2	1737.7	1680.3	1625.8	1609.6	1619.1	1639.0
50°	1372.4	1370.1	1355.4	1336.3	1312.7	1301.6	1283.2	1281.7	1281.7
52.5°	1057.1	1060.8	1031.3	1032.8	1021.7	990.8	982.7	966.5	966.5
55°	818.4	803.7	780.1	757.3	744.7	723.4	720.4	703.5	704.2
57.5°	581.2	567.9	540.0	526.0	516.4	510.5	498.0	484.7	478.8
60°	401.5	390.4	374.9	361.0	348.4	345.5	333.7	320.4	317.5
62.5°	242.4	239.4	212.2	207.0	197.4	193.0	184.9	176.1	176.8
65°	131.1	112.0	102.4	96.5	94.3	82.5	75.9	74.4	78.1
67.5°	35.4	35.4	28.7	27.3	27.3	19.9	22.8	22.1	28.7
70°	30.9	22.1	19.2	15.5	17.7	10.3	19.2	15.5	14.7
72.5°	16.2	8.8	7.4	7.4	8.1	5.2	11.8	6.6	5.2
75°	6.6	4.4	2.9	1.5	3.7	3.7	4.4	1.5	4.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.5	2.2	1.5	0.0	0.0	0.0	4.4	0.0	0.0
87.5°	0.0	1.5	0.7	0.0	0.0	0.0	1.5	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)