

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: P248120

Luminaire Tested: **LSR8B150D010 EC8B1509727 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248120
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 EC8B1509727 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11620.0 lumens
Efficiency: N/A
Efficacy: 73.3 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

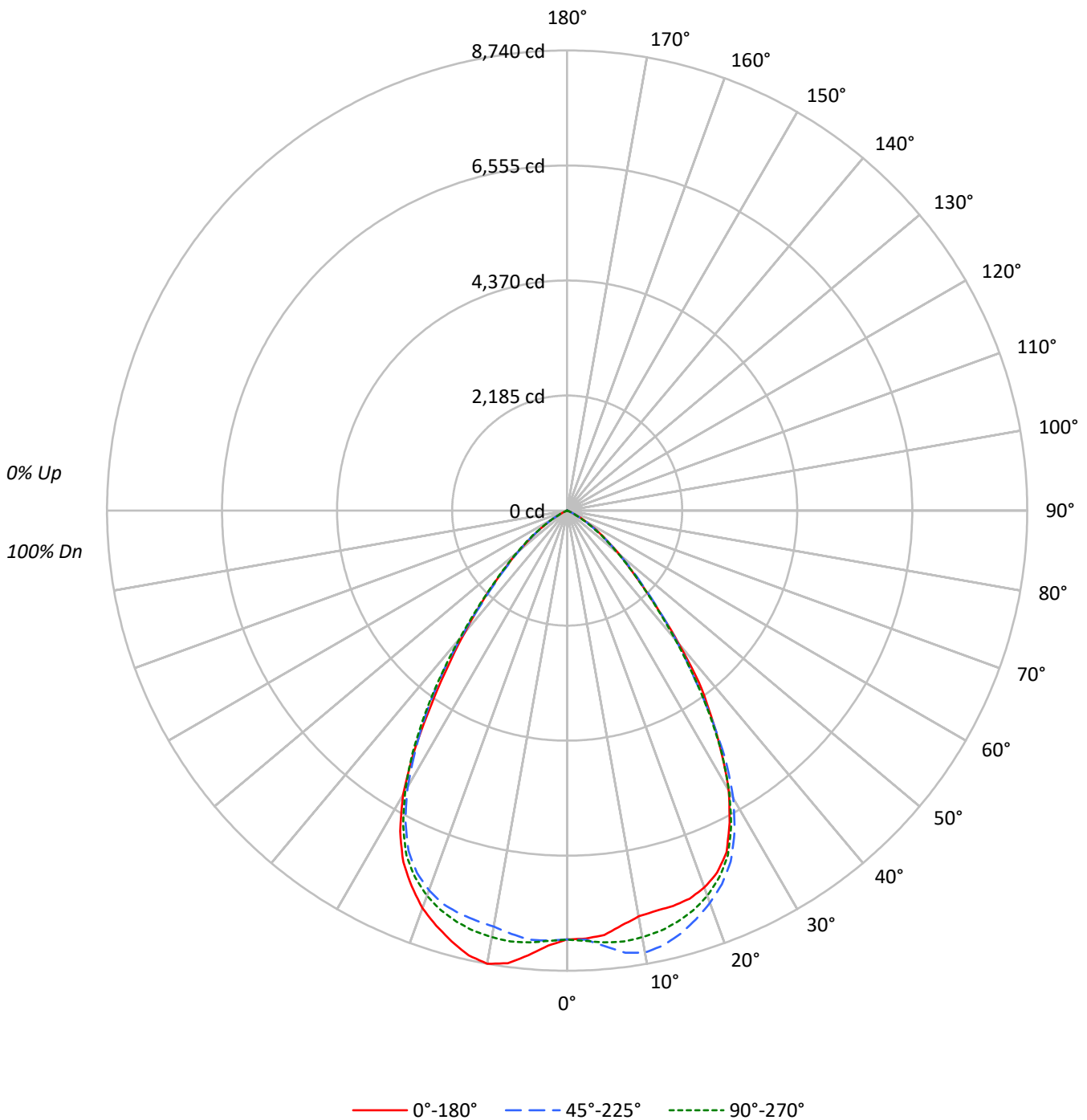
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	98	97	96	95	94	92	92	92	92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84	84	84	84			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76	76	76	76			
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71	69	69	69	69			
5	88	78	72	67	86	77	71	66	76	70	66	74	69	65	72	68	65	63	63	63	63			
6	83	72	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58	58	58	58			
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53	53	53	53			
8	73	63	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49	49	49	49			
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45	45	45	45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42	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°	788.0	6.8
10°-20°	2285.2	19.7
20°-30°	3281.7	28.2
30°-40°	2900.9	25.0
40°-50°	1587.9	13.7
50°-60°	653.7	5.6
60°-70°	117.1	1.0
70°-80°	5.1	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°	6354.9	54.7
0°-40°	9255.8	79.7
0°-60°	11497.4	98.9
0°-90°	11620.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11620.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8146	8146	8146	8146	8146	
5°	8091	8308	8232	8182	8478	762
15°	7773	8322	8088	7921	8472	2195
25°	7160	7353	7226	7131	7365	3239
35°	4769	4726	4698	4634	4495	2958
45°	2017	2076	2002	1916	1972	1623
55°	774	737	704	681	666	701
65°	124	97	89	72	74	144
75°	6	3	4	4	4	9
85°	1	1	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°	8146.2	8146.2	8146.2	8146.2	8146.2	8146.2	8146.2	8146.2	8146.2
2.5°	8135.7	8150.3	8157.3	8194.2	8181.7	8164.3	8174.0	8203.9	8268.7
5°	8091.1	8169.1	8308.4	8355.7	8232.5	8125.3	8182.4	8346.0	8478.3
7.5°	7944.2	8140.6	8469.9	8541.6	8256.2	8009.7	8109.3	8462.3	8671.1
10°	7826.6	8070.3	8522.8	8629.4	8227.6	7908.7	8025.0	8456.7	8740.1
12.5°	7786.9	8011.8	8456.0	8576.4	8179.6	7873.2	7975.6	8375.2	8652.3
15°	7773.0	7953.3	8322.3	8419.1	8088.4	7838.4	7921.3	8242.2	8472.0
17.5°	7729.8	7864.2	8139.2	8217.9	7963.0	7769.5	7833.5	8082.8	8267.3
20°	7618.4	7732.6	7930.3	7985.3	7784.1	7632.3	7673.4	7860.7	8036.1
22.5°	7444.3	7518.1	7678.3	7704.7	7545.3	7424.1	7449.9	7589.8	7718.0
25°	7159.6	7211.1	7353.1	7360.1	7226.4	7120.6	7131.0	7248.0	7365.0
27.5°	6680.5	6778.0	6882.5	6912.4	6744.6	6620.7	6652.7	6730.7	6867.8
30°	6136.8	6208.5	6310.8	6287.9	6152.8	6041.4	6054.6	6124.2	6226.6
32.5°	5458.6	5534.5	5586.7	5539.4	5471.2	5371.6	5341.6	5371.6	5399.4
35°	4768.6	4794.4	4726.2	4699.0	4698.3	4667.7	4634.3	4543.7	4495.0
37.5°	4110.0	4029.2	3906.7	3854.5	3914.3	3988.8	3888.6	3770.2	3708.9
40°	3294.7	3296.8	3220.2	3165.9	3188.1	3163.1	3119.2	3043.3	3025.2
42.5°	2575.4	2583.1	2607.5	2576.8	2523.2	2441.8	2417.4	2420.9	2474.5
45°	2017.0	2032.4	2076.2	2072.0	2001.7	1950.2	1916.1	1964.1	1971.8
47.5°	1604.2	1625.7	1643.9	1642.5	1588.2	1536.6	1521.3	1530.4	1549.2
50°	1297.1	1295.0	1281.1	1263.0	1240.7	1230.3	1212.9	1211.5	1211.5
52.5°	999.1	1002.6	974.8	976.1	965.7	936.5	928.8	913.5	913.5
55°	773.5	759.6	737.3	715.7	703.9	683.7	680.9	664.9	665.6
57.5°	549.3	536.8	510.4	497.1	488.1	482.5	470.7	458.1	452.6
60°	379.5	369.0	354.4	341.2	329.3	326.5	315.4	302.9	300.1
62.5°	229.1	226.3	200.5	195.6	186.6	182.4	174.8	166.4	167.1
65°	123.9	105.8	96.8	91.2	89.1	78.0	71.7	70.3	73.8
67.5°	33.4	33.4	27.2	25.8	25.8	18.8	21.6	20.9	27.2
70°	29.2	20.9	18.1	14.6	16.7	9.7	18.1	14.6	13.9
72.5°	15.3	8.4	7.0	7.0	7.7	4.9	11.1	6.3	4.9
75°	6.3	4.2	2.8	1.4	3.5	3.5	4.2	1.4	4.2
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°	1.4	2.1	1.4	0.0	0.0	0.0	4.2	0.0	0.0
87.5°	0.0	1.4	0.7	0.0	0.0	0.0	1.4	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)