

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: P248084

Luminaire Tested: **LSR8B150D010 EC8B1509727 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-93)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B1509727 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12056.0 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

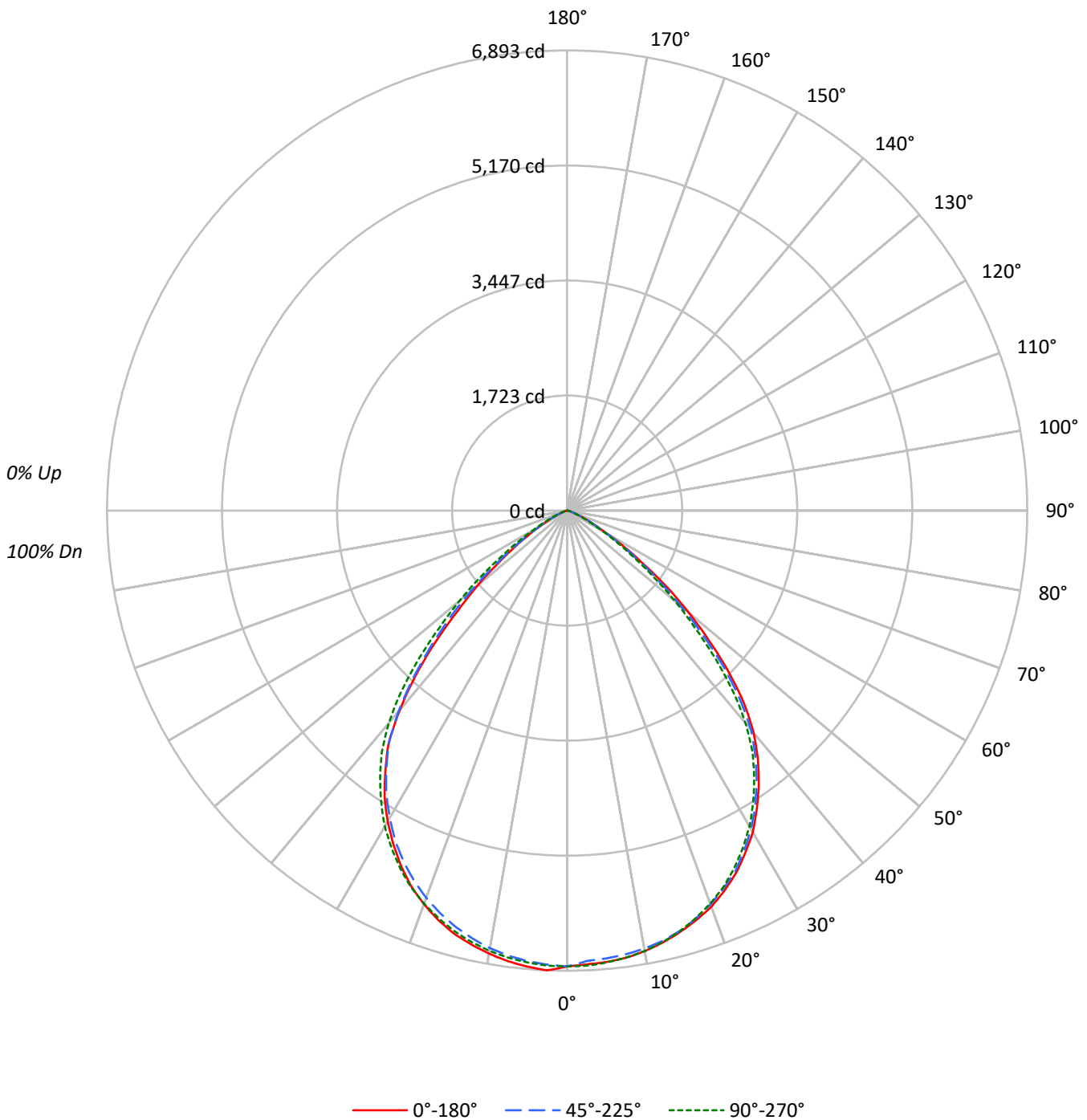
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	93	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59	58
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	57	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	43
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36

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°	644.9	5.3
10°-20°	1836.7	15.2
20°-30°	2713.4	22.5
30°-40°	3023.8	25.1
40°-50°	2388.0	19.8
50°-60°	1102.8	9.1
60°-70°	283.3	2.3
70°-80°	54.5	0.5
80°-90°	8.6	0.1
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°	5195.0	43.1
0°-40°	8218.8	68.2
0°-60°	11709.6	97.1
0°-90°	12056.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12056.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6828	6828	6828	6828	6828	
5°	6789	6734	6796	6775	6856	645
15°	6535	6520	6523	6455	6559	1844
25°	5988	5960	5916	5798	5881	2752
35°	5006	4950	4885	4722	4749	3117
45°	3420	3320	3148	2896	2795	2610
55°	1393	1312	1214	1039	978	1291
65°	302	306	270	207	192	332
75°	50	53	54	41	34	60
85°	8	8	6	4	3	11
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°	6828.4	6828.4	6828.4	6828.4	6828.4	6828.4	6828.4	6828.4	6828.4
2.5°	6802.6	6834.6	6753.2	6819.3	6822.1	6775.5	6807.5	6845.8	6893.1
5°	6788.7	6821.4	6734.4	6795.6	6795.6	6744.8	6774.8	6808.2	6856.2
7.5°	6756.0	6791.5	6705.8	6762.9	6753.9	6698.2	6724.6	6757.3	6808.9
10°	6701.6	6745.5	6662.0	6716.3	6697.5	6633.4	6656.4	6690.5	6738.5
12.5°	6627.1	6679.4	6601.4	6648.7	6618.8	6545.7	6564.5	6608.3	6655.7
15°	6535.2	6588.9	6519.9	6561.0	6523.4	6441.9	6455.2	6499.7	6558.9
17.5°	6432.9	6485.1	6407.8	6452.4	6402.2	6318.0	6322.9	6374.4	6428.0
20°	6315.2	6358.4	6279.0	6321.5	6265.1	6172.5	6173.2	6219.1	6274.8
22.5°	6160.6	6205.9	6123.7	6159.2	6107.7	6008.9	5997.0	6041.6	6095.2
25°	5988.0	6035.3	5960.1	5972.6	5916.2	5813.9	5797.9	5830.6	5880.7
27.5°	5781.2	5827.8	5742.9	5758.9	5696.9	5598.7	5577.2	5594.6	5634.3
30°	5561.1	5590.4	5509.6	5522.9	5463.0	5346.7	5314.0	5337.6	5376.6
32.5°	5290.3	5311.2	5242.3	5249.2	5184.5	5084.2	5041.0	5048.0	5087.7
35°	5005.5	5016.7	4949.8	4951.2	4885.1	4783.4	4722.1	4718.7	4749.3
37.5°	4691.5	4699.2	4631.6	4628.1	4559.9	4449.9	4385.8	4374.7	4393.5
40°	4346.8	4357.3	4287.0	4264.7	4160.2	4034.9	3930.5	3911.0	3903.3
42.5°	3929.1	3900.5	3826.7	3789.1	3684.0	3523.2	3426.4	3397.1	3372.1
45°	3420.1	3397.1	3320.5	3235.6	3147.9	3026.7	2896.5	2816.4	2794.8
47.5°	2886.1	2858.9	2748.9	2674.4	2588.1	2532.4	2392.4	2269.2	2215.5
50°	2367.3	2337.4	2214.9	2159.8	2109.0	2026.2	1890.4	1779.7	1759.5
52.5°	1887.6	1842.3	1737.2	1680.1	1634.9	1542.9	1420.4	1356.3	1322.2
55°	1392.6	1385.6	1312.5	1271.4	1213.6	1140.5	1038.8	990.8	977.6
57.5°	1014.5	988.7	960.9	926.0	875.9	784.0	721.3	685.1	682.3
60°	681.7	690.0	690.0	651.7	599.5	539.6	489.5	470.0	470.7
62.5°	457.5	463.0	461.6	444.9	404.5	355.8	323.1	309.1	309.8
65°	302.2	300.8	306.4	294.5	270.2	236.0	206.8	199.1	192.2
67.5°	192.2	194.3	192.2	185.9	171.3	146.9	127.4	115.6	112.1
70°	117.0	114.2	114.9	113.5	103.0	91.2	77.3	67.5	64.8
72.5°	70.3	72.4	73.1	75.2	73.8	65.4	55.7	48.7	47.3
75°	50.1	50.8	52.9	55.0	54.3	48.7	41.1	36.2	34.1
77.5°	37.6	37.6	39.0	41.8	39.7	34.8	29.2	25.1	23.7
80°	25.8	26.5	27.2	27.2	25.1	22.3	17.4	14.6	13.2
82.5°	15.3	16.0	15.3	15.3	13.9	11.1	8.4	7.7	7.0
85°	7.7	7.7	7.7	7.7	6.3	4.9	3.5	2.8	2.8
87.5°	3.5	3.5	3.5	2.8	2.1	1.4	1.4	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)