

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: P248087

Luminaire Tested: **LSR8B150D010 EC8B1509730 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248087
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 EC8B1509730 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12755.0 lumens
Efficiency: N/A
Efficacy: 80.5 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

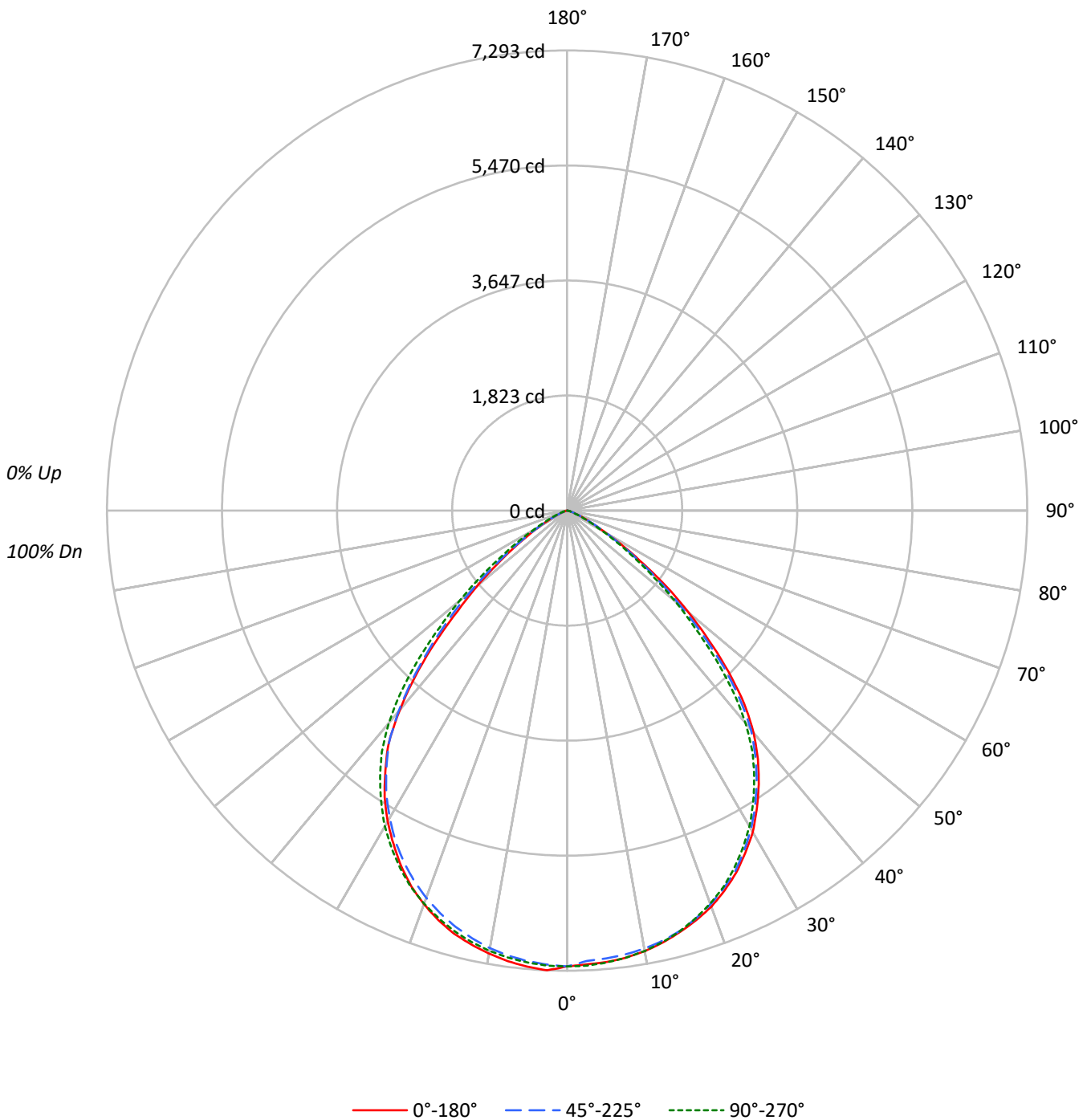
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	682.2	5.3
10°-20°	1943.2	15.2
20°-30°	2870.8	22.5
30°-40°	3199.1	25.1
40°-50°	2526.5	19.8
50°-60°	1166.7	9.1
60°-70°	299.7	2.3
70°-80°	57.7	0.5
80°-90°	9.0	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°	5496.2	43.1
0°-40°	8695.3	68.2
0°-60°	12388.5	97.1
0°-90°	12755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12755.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7224	7224	7224	7224	7224	
5°	7182	7125	7190	7168	7254	683
15°	6914	6898	6902	6829	6939	1951
25°	6335	6306	6259	6134	6222	2911
35°	5296	5237	5168	4996	5025	3298
45°	3618	3513	3330	3064	2957	2762
55°	1473	1389	1284	1099	1034	1365
65°	320	324	286	219	203	351
75°	53	56	58	44	36	64
85°	8	8	7	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°	7224.3	7224.3	7224.3	7224.3	7224.3	7224.3	7224.3	7224.3	7224.3
2.5°	7197.0	7230.9	7144.7	7214.7	7217.6	7168.3	7202.2	7242.7	7292.8
5°	7182.3	7216.9	7124.8	7189.7	7189.7	7135.9	7167.6	7202.9	7253.7
7.5°	7147.7	7185.2	7094.6	7155.0	7145.5	7086.5	7114.5	7149.1	7203.6
10°	7090.2	7136.6	7048.2	7105.7	7085.8	7018.0	7042.3	7078.4	7129.2
12.5°	7011.4	7066.6	6984.1	7034.2	7002.5	6925.2	6945.1	6991.5	7041.6
15°	6914.1	6970.9	6897.9	6941.4	6901.6	6815.4	6829.4	6876.6	6939.2
17.5°	6805.9	6861.1	6779.3	6826.5	6773.4	6684.3	6689.5	6744.0	6800.7
20°	6681.4	6727.0	6643.1	6688.0	6628.3	6530.4	6531.1	6579.7	6638.6
22.5°	6517.8	6565.7	6478.8	6516.4	6461.8	6357.2	6344.7	6391.9	6448.6
25°	6335.1	6385.2	6305.7	6318.9	6259.3	6151.0	6134.0	6168.7	6221.7
27.5°	6116.4	6165.7	6075.8	6092.8	6027.2	5923.4	5900.5	5918.9	5960.9
30°	5883.6	5914.5	5829.1	5843.1	5779.7	5656.7	5622.1	5647.1	5688.4
32.5°	5597.0	5619.1	5546.2	5553.6	5485.1	5379.0	5333.3	5340.7	5382.7
35°	5295.7	5307.5	5236.8	5238.3	5168.3	5060.7	4995.9	4992.2	5024.7
37.5°	4963.5	4971.6	4900.2	4896.5	4824.3	4707.9	4640.1	4628.3	4648.2
40°	4598.9	4609.9	4535.5	4511.9	4401.5	4268.9	4158.4	4137.7	4129.6
42.5°	4156.9	4126.7	4048.6	4008.8	3897.6	3727.4	3625.0	3594.1	3567.6
45°	3618.4	3594.1	3513.1	3423.2	3330.4	3202.2	3064.4	2979.7	2956.9
47.5°	3053.4	3024.7	2908.3	2829.5	2738.1	2679.2	2531.1	2400.7	2344.0
50°	2504.6	2472.9	2343.3	2285.1	2231.3	2143.6	2000.0	1882.9	1861.5
52.5°	1997.0	1949.2	1837.9	1777.5	1729.6	1632.4	1502.8	1435.0	1398.9
55°	1473.3	1465.9	1388.6	1345.1	1284.0	1206.6	1099.1	1048.2	1034.2
57.5°	1073.3	1046.0	1016.6	979.7	926.7	829.5	763.2	724.9	721.9
60°	721.2	730.0	730.0	689.5	634.3	570.9	517.9	497.2	498.0
62.5°	484.0	489.9	488.4	470.7	428.0	376.4	341.8	327.1	327.8
65°	319.7	318.2	324.1	311.6	285.8	249.7	218.8	210.7	203.3
67.5°	203.3	205.5	203.3	196.7	181.2	155.4	134.8	122.3	118.6
70°	123.8	120.8	121.5	120.1	109.0	96.5	81.8	71.5	68.5
72.5°	74.4	76.6	77.3	79.6	78.1	69.2	58.9	51.6	50.1
75°	53.0	53.8	56.0	58.2	57.5	51.6	43.5	38.3	36.1
77.5°	39.8	39.8	41.3	44.2	42.0	36.8	30.9	26.5	25.0
80°	27.3	28.0	28.7	28.7	26.5	23.6	18.4	15.5	14.0
82.5°	16.2	16.9	16.2	16.2	14.7	11.8	8.8	8.1	7.4
85°	8.1	8.1	8.1	8.1	6.6	5.2	3.7	2.9	2.9
87.5°	3.7	3.7	3.7	2.9	2.2	1.5	1.5	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)