

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: P248195

Luminaire Tested: **LSR8B150D010 EC8B1509730 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248195
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-73)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B1509730 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10697.0 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

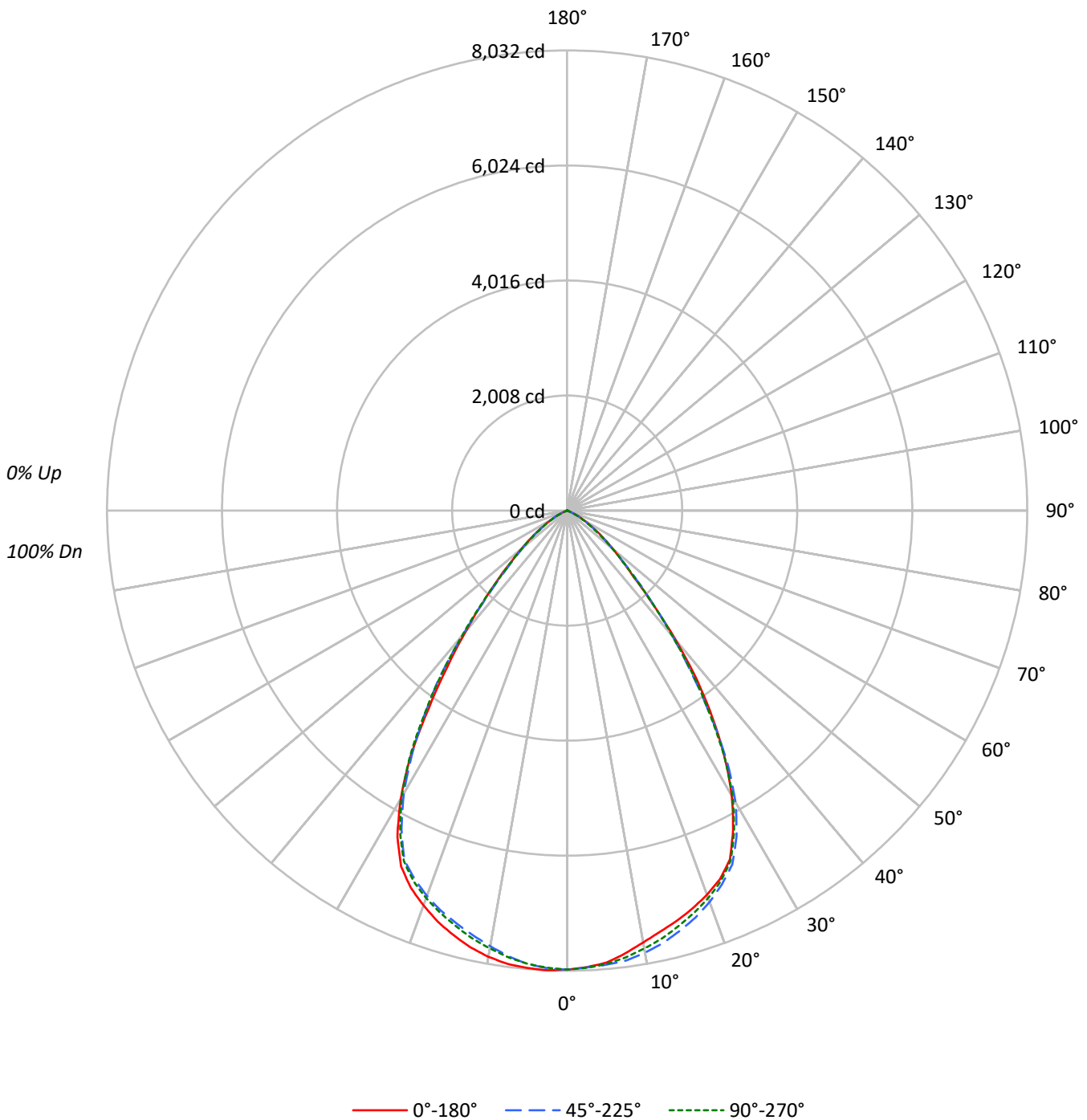
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	88	84	80	86	82	79	84	80	78	76	76	76	76			
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69	69	69	69			
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63	63	63	63			
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58	58	58	58			
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53	53	53	53			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49	49	49	49			
9	70	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45	45	45	45			
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	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°	753.3	7.0
10°-20°	2122.2	19.8
20°-30°	3060.2	28.6
30°-40°	2687.6	25.1
40°-50°	1359.0	12.7
50°-60°	556.3	5.2
60°-70°	146.2	1.4
70°-80°	10.3	0.1
80°-90°	1.9	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°	5935.8	55.5
0°-40°	8623.4	80.6
0°-60°	10538.6	98.5
0°-90°	10697.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10697.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8012	8012	8012	8012	8012	
5°	7920	7956	7942	7942	8014	747
15°	7410	7594	7510	7461	7671	2091
25°	6720	6817	6748	6724	6855	3036
35°	4431	4355	4342	4323	4214	2732
45°	1654	1731	1682	1639	1716	1364
55°	629	604	585	583	603	581
65°	158	141	126	124	136	162
75°	4	3	9	3	5	11
85°	2	2	2	1	2	3
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°	8011.9	8011.9	8011.9	8011.9	8011.9	8011.9	8011.9	8011.9	8011.9
2.5°	7975.1	8014.1	7979.5	8000.1	7986.1	7963.3	7995.0	7980.2	8031.8
5°	7919.8	7967.0	7955.9	7981.7	7941.9	7899.9	7941.9	7945.6	8014.1
7.5°	7793.8	7874.9	7921.3	7952.2	7864.6	7796.1	7846.1	7891.1	7979.5
10°	7653.1	7751.1	7835.1	7883.0	7761.4	7661.2	7720.9	7797.5	7908.8
12.5°	7523.5	7631.8	7731.2	7777.6	7649.5	7536.8	7593.5	7688.5	7807.8
15°	7410.0	7499.2	7593.5	7641.4	7509.5	7402.7	7460.9	7548.5	7670.8
17.5°	7280.4	7364.4	7447.6	7485.2	7362.9	7270.1	7323.1	7398.3	7519.8
20°	7135.3	7207.5	7270.8	7315.0	7197.9	7109.5	7157.4	7227.4	7332.7
22.5°	6965.1	7019.6	7060.9	7100.6	7005.6	6918.0	6959.2	7014.5	7125.7
25°	6720.5	6775.8	6817.0	6862.0	6747.8	6672.7	6723.5	6747.1	6855.3
27.5°	6272.6	6342.6	6404.5	6444.3	6313.9	6249.1	6262.3	6301.4	6416.3
30°	5748.1	5782.0	5876.3	5888.1	5777.6	5664.9	5701.0	5742.3	5810.0
32.5°	5124.9	5144.1	5198.6	5204.5	5122.0	5035.1	5035.8	5017.4	5085.9
35°	4431.0	4387.5	4355.1	4377.2	4341.9	4357.3	4323.4	4238.7	4213.7
37.5°	3714.2	3686.2	3544.1	3533.0	3615.5	3665.6	3632.5	3443.9	3430.6
40°	2938.5	2906.9	2853.8	2845.7	2856.8	2885.5	2824.3	2768.4	2751.4
42.5°	2198.9	2215.9	2232.8	2248.3	2216.6	2154.7	2151.8	2141.5	2181.2
45°	1653.8	1689.9	1731.1	1751.8	1681.8	1633.9	1639.1	1661.9	1715.7
47.5°	1307.6	1314.9	1330.4	1348.1	1306.8	1245.7	1261.9	1298.7	1322.3
50°	1038.7	1046.1	1041.6	1039.4	1019.5	982.7	1005.5	1032.8	1040.9
52.5°	819.2	809.6	801.5	796.3	783.8	769.1	773.5	796.3	808.9
55°	629.1	621.7	604.1	596.7	584.9	581.2	583.4	601.1	603.3
57.5°	472.9	462.6	444.9	430.9	431.7	425.8	428.7	441.3	447.9
60°	355.8	349.2	318.2	320.4	310.1	308.7	315.3	322.7	325.6
62.5°	246.0	248.3	224.7	221.7	216.6	217.3	221.7	227.6	228.4
65°	158.4	148.8	140.7	134.8	126.0	121.5	124.5	140.7	135.5
67.5°	61.9	65.6	53.0	61.9	57.5	48.6	56.0	62.6	59.7
70°	33.9	34.6	28.7	27.3	28.7	26.5	30.2	33.9	25.8
72.5°	21.4	21.4	15.5	15.5	19.9	13.3	15.5	24.3	19.2
75°	4.4	5.2	2.9	1.5	8.8	4.4	2.9	8.8	5.2
77.5°	0.0	5.2	0.0	0.0	0.0	0.0	1.5	1.5	1.5
80°	0.0	0.0	0.0	2.2	0.0	0.0	0.0	1.5	1.5
82.5°	0.0	1.5	0.0	0.0	0.0	0.0	0.0	1.5	0.0
85°	1.5	5.9	1.5	0.0	1.5	1.5	0.7	4.4	1.5
87.5°	9.6	4.4	0.7	4.4	3.7	4.4	5.2	4.4	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)