

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: P248192

Luminaire Tested: **LSR8B150D010 EC8B150927 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248192
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 EC8B150927 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11374.9 lumens
Efficiency: N/A
Efficacy: 71.8 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

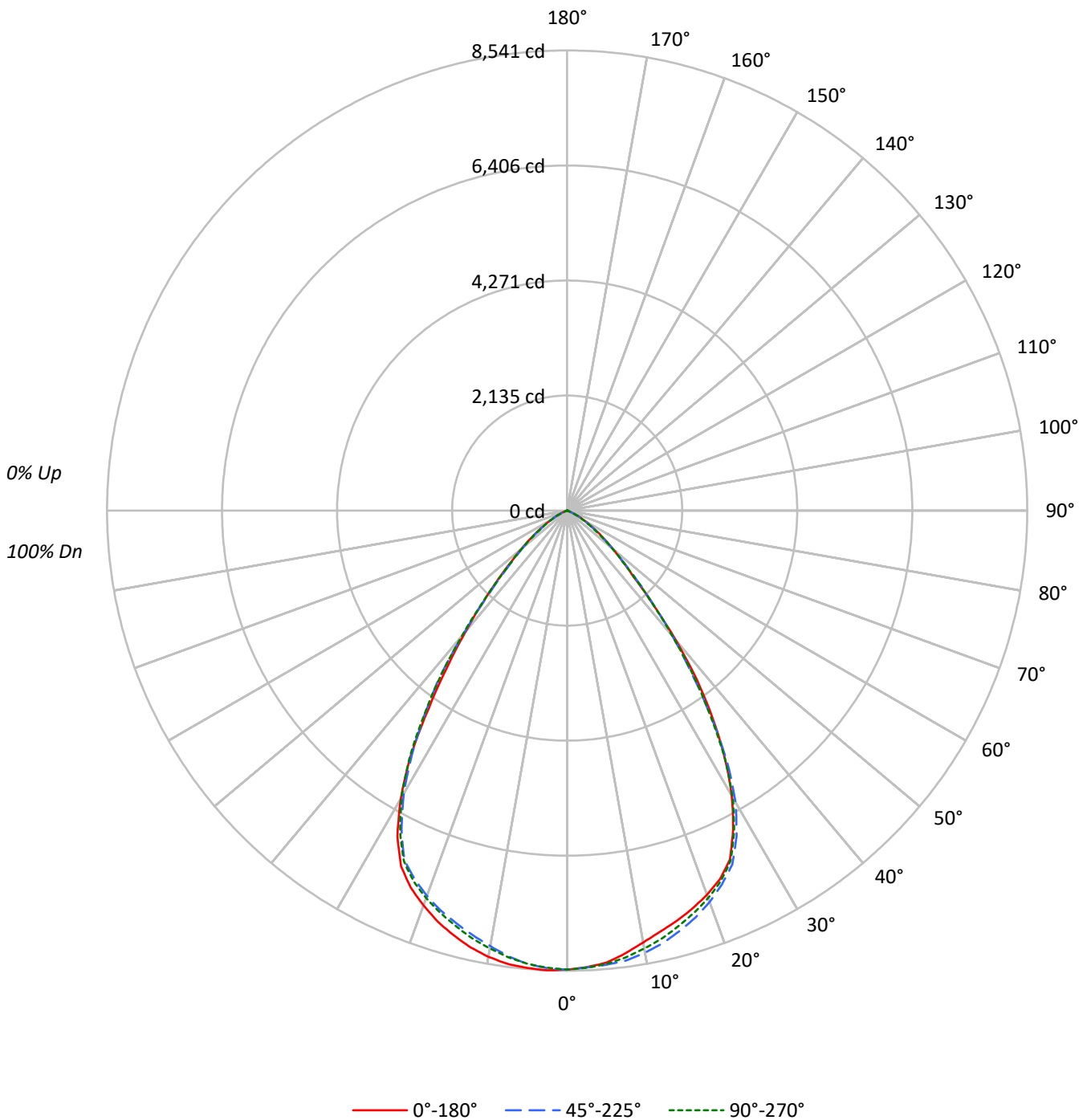
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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	82	88	84	80	86	82	79	84	80	78	76	76	76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69	69	69
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63	63	63
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58	58	58
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53	53	53
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49	49	49
9	70	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45	45	45
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	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°	801.1	7.0
10°-20°	2256.7	19.8
20°-30°	3254.2	28.6
30°-40°	2857.9	25.1
40°-50°	1445.1	12.7
50°-60°	591.5	5.2
60°-70°	155.5	1.4
70°-80°	11.0	0.1
80°-90°	2.0	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°	6311.9	55.5
0°-40°	9169.8	80.6
0°-60°	11206.4	98.5
0°-90°	11374.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11374.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8520	8520	8520	8520	8520	
5°	8422	8460	8445	8445	8522	794
15°	7880	8075	7985	7934	8157	2223
25°	7146	7249	7175	7150	7290	3229
35°	4712	4631	4617	4597	4481	2905
45°	1759	1841	1788	1743	1824	1451
55°	669	642	622	620	642	618
65°	168	150	134	132	144	172
75°	5	3	10	3	6	12
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°	8519.6	8519.6	8519.6	8519.6	8519.6	8519.6	8519.6	8519.6	8519.6
2.5°	8480.5	8522.0	8485.2	8507.0	8492.2	8467.9	8501.6	8485.9	8540.8
5°	8421.8	8471.8	8460.1	8487.4	8445.2	8400.6	8445.2	8449.1	8522.0
7.5°	8287.8	8373.9	8423.2	8456.2	8362.9	8290.1	8343.3	8391.2	8485.2
10°	8138.1	8242.3	8331.6	8382.5	8253.2	8146.7	8210.1	8291.7	8409.9
12.5°	8000.2	8115.4	8221.2	8270.6	8134.2	8014.4	8074.7	8175.7	8302.6
15°	7879.6	7974.4	8074.7	8125.5	7985.4	7871.7	7933.7	8026.9	8156.9
17.5°	7741.8	7831.0	7919.6	7959.5	7829.4	7730.8	7787.1	7867.1	7996.4
20°	7587.4	7664.2	7731.6	7778.6	7654.0	7560.0	7611.0	7685.3	7797.4
22.5°	7406.4	7464.5	7508.4	7550.7	7449.5	7356.4	7400.2	7459.0	7577.2
25°	7146.4	7205.2	7249.0	7296.9	7175.4	7095.5	7149.6	7174.6	7289.8
27.5°	6670.1	6744.6	6810.4	6852.7	6714.0	6645.0	6659.2	6700.7	6822.9
30°	6112.5	6148.5	6248.7	6261.2	6143.7	6023.9	6062.3	6106.2	6178.2
32.5°	5449.7	5470.1	5528.0	5534.3	5446.6	5354.1	5354.9	5335.3	5408.2
35°	4711.8	4665.6	4631.1	4654.6	4617.0	4633.4	4597.4	4507.3	4480.8
37.5°	3949.6	3919.8	3768.6	3756.9	3844.7	3897.9	3862.7	3662.1	3648.0
40°	3124.8	3091.0	3034.7	3026.0	3037.8	3068.3	3003.3	2943.8	2925.8
42.5°	2338.3	2356.3	2374.3	2390.7	2357.1	2291.3	2288.1	2277.2	2319.5
45°	1758.6	1797.0	1840.8	1862.8	1788.4	1737.4	1743.0	1767.3	1824.4
47.5°	1390.4	1398.3	1414.7	1433.5	1389.6	1324.6	1341.9	1381.0	1406.1
50°	1104.5	1112.4	1107.7	1105.3	1084.2	1045.0	1069.3	1098.2	1106.9
52.5°	871.1	860.8	852.3	846.8	833.5	817.8	822.5	846.8	860.1
55°	668.9	661.2	642.4	634.5	622.0	618.1	620.4	639.2	641.6
57.5°	502.9	492.0	473.2	458.2	459.0	452.8	455.8	469.2	476.3
60°	378.3	371.2	338.4	340.8	329.7	328.3	335.2	343.1	346.3
62.5°	261.7	264.0	239.0	235.8	230.3	231.1	235.8	242.1	242.9
65°	168.4	158.3	149.6	143.3	134.0	129.3	132.4	149.6	144.1
67.5°	65.8	69.8	56.4	65.8	61.1	51.8	59.5	66.6	63.4
70°	36.0	36.8	30.6	29.0	30.6	28.2	32.1	36.0	27.4
72.5°	22.7	22.7	16.4	16.4	21.2	14.1	16.4	25.9	20.4
75°	4.7	5.5	3.2	1.6	9.5	4.7	3.2	9.5	5.5
77.5°	0.0	5.5	0.0	0.0	0.0	0.0	1.6	1.6	1.6
80°	0.0	0.0	0.0	2.4	0.0	0.0	0.0	1.6	1.6
82.5°	0.0	1.6	0.0	0.0	0.0	0.0	0.0	1.6	0.0
85°	1.6	6.3	1.6	0.0	1.6	1.6	0.8	4.7	1.6
87.5°	10.2	4.7	0.8	4.7	3.9	4.7	5.5	4.7	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)