

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 EC8B150930 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 EC8B150930 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: 14298.4 lumens
Efficiency: N/A
Efficacy: 90.2 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

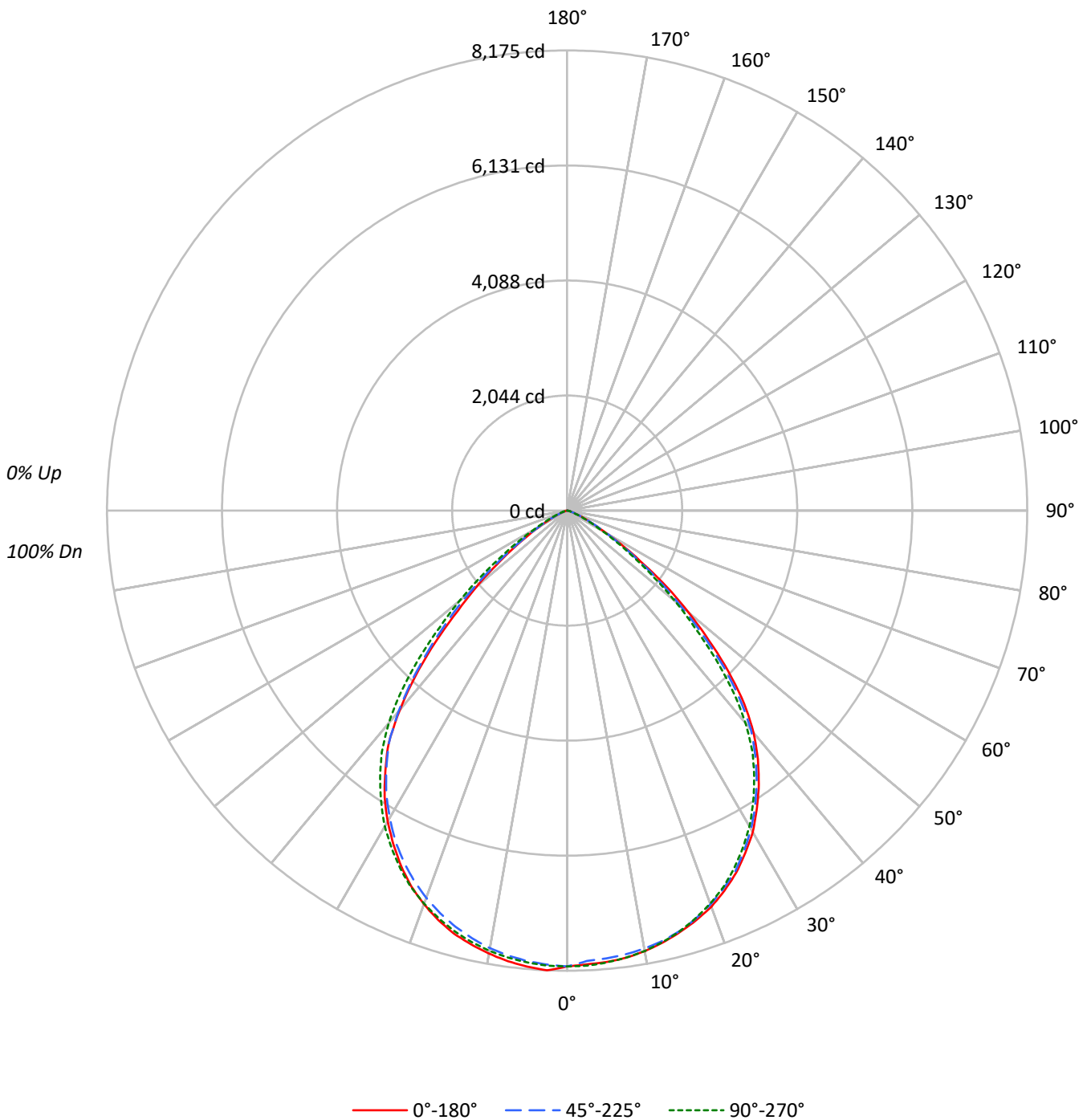
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	764.8	5.3
10°-20°	2178.3	15.2
20°-30°	3218.1	22.5
30°-40°	3586.2	25.1
40°-50°	2832.2	19.8
50°-60°	1307.9	9.1
60°-70°	336.0	2.3
70°-80°	64.7	0.5
80°-90°	10.1	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°	6161.2	43.1
0°-40°	9747.5	68.2
0°-60°	13887.5	97.1
0°-90°	14298.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14298.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8098	8098	8098	8098	8098	
5°	8051	7987	8060	8035	8131	765
15°	7751	7732	7737	7656	7779	2187
25°	7102	7069	7017	6876	6974	3263
35°	5936	5870	5794	5600	5633	3697
45°	4056	3938	3733	3435	3315	3096
55°	1652	1557	1439	1232	1159	1531
65°	358	363	320	245	228	394
75°	59	63	64	49	40	72
85°	9	9	7	4	3	13
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°	8098.4	8098.4	8098.4	8098.4	8098.4	8098.4	8098.4	8098.4	8098.4
2.5°	8067.8	8105.8	8009.2	8087.7	8090.9	8035.7	8073.7	8119.1	8175.2
5°	8051.4	8090.1	7986.9	8059.7	8059.7	7999.3	8034.9	8074.5	8131.4
7.5°	8012.6	8054.6	7953.0	8020.8	8010.1	7944.0	7975.4	8014.1	8075.2
10°	7948.1	8000.1	7901.0	7965.5	7943.2	7867.2	7894.4	7934.9	7991.8
12.5°	7859.8	7921.7	7829.2	7885.3	7849.8	7763.1	7785.5	7837.5	7893.6
15°	7750.7	7814.4	7732.5	7781.3	7736.7	7640.1	7655.8	7708.7	7778.8
17.5°	7629.4	7691.3	7599.6	7652.5	7593.0	7493.1	7498.9	7560.0	7623.6
20°	7489.8	7541.0	7446.9	7497.2	7430.3	7320.6	7321.4	7375.8	7441.9
22.5°	7306.5	7360.1	7262.7	7304.9	7243.7	7126.4	7112.4	7165.3	7228.9
25°	7101.6	7157.8	7068.7	7083.5	7016.7	6895.3	6876.2	6915.1	6974.5
27.5°	6856.5	6911.7	6811.0	6830.0	6756.5	6640.1	6614.5	6635.1	6682.2
30°	6595.5	6630.2	6534.4	6550.1	6479.0	6341.2	6302.4	6330.4	6376.7
32.5°	6274.2	6299.0	6217.3	6225.6	6148.8	6029.9	5978.6	5986.9	6034.0
35°	5936.5	5949.7	5870.5	5872.1	5793.7	5673.0	5600.4	5596.3	5632.7
37.5°	5564.1	5573.2	5493.1	5489.0	5408.0	5277.6	5201.6	5188.3	5210.6
40°	5155.4	5167.7	5084.3	5057.8	4934.1	4785.4	4661.6	4638.4	4629.3
42.5°	4659.9	4626.0	4538.5	4493.9	4369.2	4178.4	4063.6	4029.0	3999.3
45°	4056.2	4029.0	3938.2	3837.4	3733.4	3589.7	3435.2	3340.2	3314.7
47.5°	3422.9	3390.7	3260.2	3171.9	3069.4	3003.4	2837.4	2691.2	2627.6
50°	2807.7	2772.1	2626.8	2561.6	2501.3	2403.0	2242.0	2110.7	2086.7
52.5°	2238.6	2185.1	2060.3	1992.6	1938.9	1829.9	1684.6	1608.6	1568.2
55°	1651.6	1643.3	1556.6	1507.9	1439.4	1352.6	1232.1	1175.0	1159.3
57.5°	1203.2	1172.6	1139.6	1098.2	1038.8	929.9	855.5	812.6	809.2
60°	808.5	818.3	818.3	772.9	711.1	640.0	580.6	557.4	558.3
62.5°	542.6	549.2	547.5	527.7	479.8	421.9	383.2	366.7	367.5
65°	358.4	356.7	363.3	349.3	320.4	279.9	245.3	236.2	227.9
67.5°	227.9	230.4	227.9	220.5	203.1	174.2	151.1	137.1	133.0
70°	138.8	135.4	136.2	134.6	122.2	108.2	91.7	80.2	76.8
72.5°	83.4	85.9	86.7	89.2	87.6	77.6	66.0	57.8	56.2
75°	59.4	60.3	62.8	65.2	64.5	57.8	48.8	42.9	40.5
77.5°	44.6	44.6	46.3	49.5	47.1	41.3	34.6	29.7	28.0
80°	30.6	31.4	32.2	32.2	29.7	26.5	20.6	17.4	15.7
82.5°	18.2	18.9	18.2	18.2	16.5	13.2	9.9	9.1	8.3
85°	9.1	9.1	9.1	9.1	7.4	5.8	4.1	3.3	3.3
87.5°	4.1	4.1	4.1	3.3	2.5	1.7	1.7	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)