

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: P248120

Luminaire Tested: **LSR8B150D010 EC8B150927 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248120
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-72)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150927 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13072.5 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

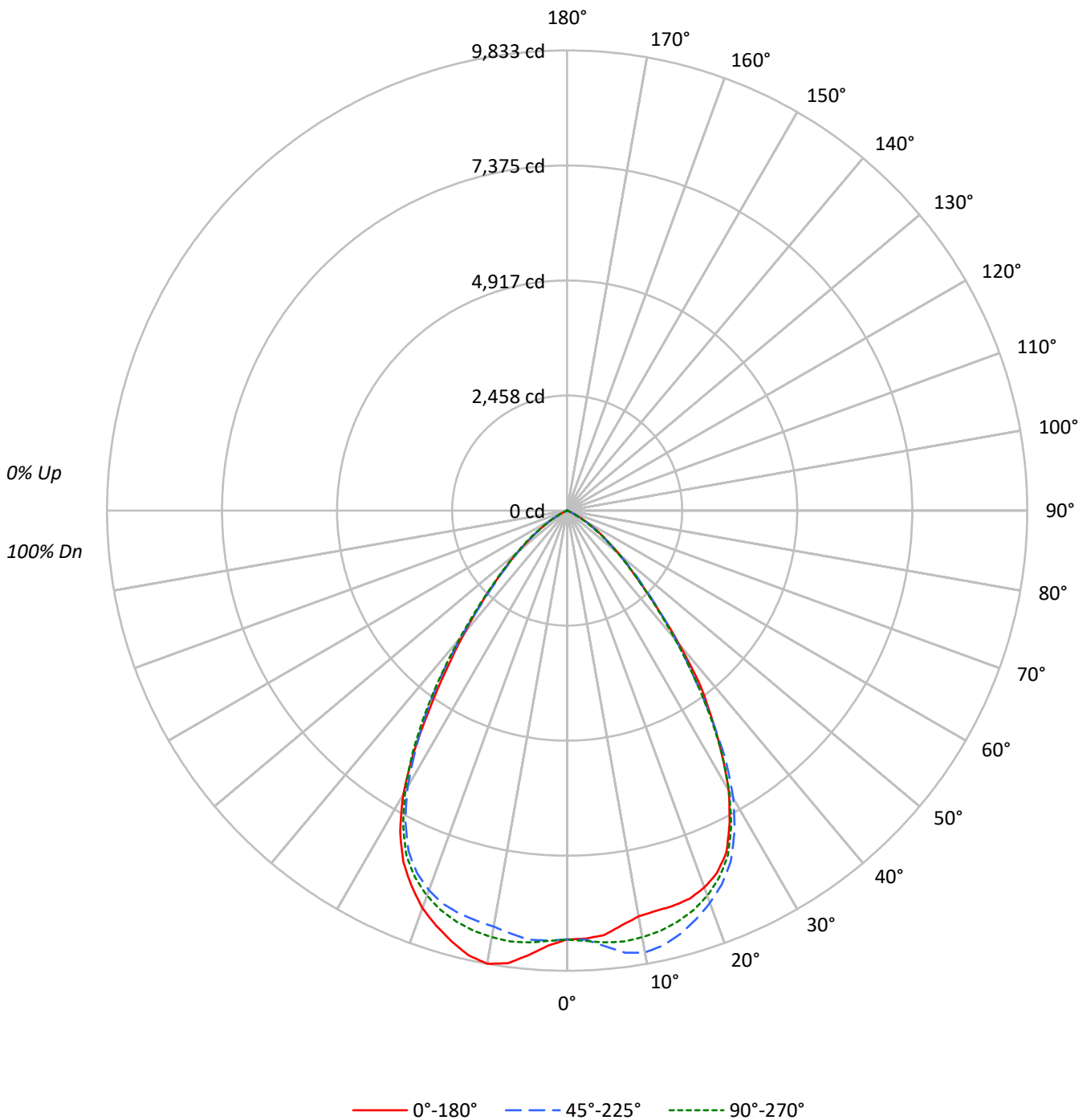
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
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	81	88	84	80	86	82	79	83	80	78	76	76	76	76			
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71	69	69	69	69			
5	88	78	72	67	86	77	71	66	76	70	66	74	69	65	72	68	65	63	63	63	63			
6	83	72	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58	58	58	58			
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53	53	53	53			
8	73	63	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49	49	49	49			
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45	45	45	45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	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°	886.5	6.8
10°-20°	2570.9	19.7
20°-30°	3691.9	28.2
30°-40°	3263.5	25.0
40°-50°	1786.4	13.7
50°-60°	735.4	5.6
60°-70°	131.8	1.0
70°-80°	5.7	0.0
80°-90°	0.5	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°	7149.3	54.7
0°-40°	10412.8	79.7
0°-60°	12934.6	98.9
0°-90°	13072.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13072.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9164	9164	9164	9164	9164	
5°	9102	9347	9262	9205	9538	858
15°	8745	9363	9099	8912	9531	2470
25°	8055	8272	8130	8022	8286	3643
35°	5365	5317	5286	5214	5057	3328
45°	2269	2336	2252	2156	2218	1826
55°	870	830	792	766	749	789
65°	139	109	100	81	83	162
75°	7	3	4	5	5	11
85°	2	2	0	5	0	0
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°	9164.5	9164.5	9164.5	9164.5	9164.5	9164.5	9164.5	9164.5	9164.5
2.5°	9152.7	9169.1	9177.0	9218.5	9204.4	9184.8	9195.8	9229.4	9302.3
5°	9102.5	9190.2	9346.9	9400.2	9261.6	9141.0	9205.2	9389.2	9538.1
7.5°	8937.2	9158.2	9528.6	9609.3	9288.2	9010.9	9123.0	9520.1	9755.0
10°	8804.9	9079.1	9588.2	9708.1	9256.1	8897.3	9028.1	9513.8	9832.6
12.5°	8760.3	9013.3	9513.0	9648.4	9202.1	8857.4	8972.6	9422.1	9733.8
15°	8744.6	8947.5	9362.6	9471.5	9099.4	8818.2	8911.5	9272.5	9531.0
17.5°	8696.0	8847.2	9156.6	9245.1	8958.4	8740.7	8812.7	9093.2	9300.7
20°	8570.7	8699.2	8921.6	8983.5	8757.1	8586.3	8632.6	8843.3	9040.6
22.5°	8374.8	8457.9	8638.1	8667.8	8488.5	8352.1	8381.1	8538.5	8682.8
25°	8054.6	8112.5	8272.2	8280.1	8129.7	8010.7	8022.4	8154.0	8285.6
27.5°	7515.6	7625.2	7742.8	7776.4	7587.7	7448.3	7484.3	7572.0	7726.3
30°	6903.9	6984.6	7099.6	7073.9	6921.9	6796.6	6811.4	6889.7	7004.9
32.5°	6140.9	6226.3	6285.0	6231.8	6155.1	6043.0	6009.3	6043.0	6074.3
35°	5364.7	5393.7	5317.0	5286.4	5285.6	5251.2	5213.6	5111.7	5056.9
37.5°	4623.8	4532.8	4395.0	4336.3	4403.6	4487.4	4374.7	4241.5	4172.5
40°	3706.5	3708.9	3622.7	3561.6	3586.6	3558.5	3509.1	3423.7	3403.4
42.5°	2897.3	2906.0	2933.4	2898.9	2838.6	2747.0	2719.6	2723.5	2783.8
45°	2269.1	2286.5	2335.7	2331.0	2251.9	2194.0	2155.6	2209.6	2218.3
47.5°	1804.7	1828.9	1849.4	1847.8	1786.7	1728.7	1711.5	1721.7	1742.8
50°	1459.2	1456.9	1441.2	1420.9	1395.8	1384.1	1364.5	1362.9	1362.9
52.5°	1124.0	1127.9	1096.6	1098.1	1086.4	1053.6	1044.9	1027.7	1027.7
55°	870.2	854.6	829.5	805.2	791.9	769.2	766.0	748.0	748.8
57.5°	618.0	603.9	574.2	559.2	549.1	542.8	529.5	515.4	509.2
60°	426.9	415.1	398.7	383.8	370.5	367.3	354.8	340.8	337.6
62.5°	257.7	254.6	225.6	220.0	209.9	205.2	196.6	187.2	188.0
65°	139.4	119.0	108.9	102.6	100.2	87.8	80.7	79.1	83.0
67.5°	37.6	37.6	30.6	29.0	29.0	21.2	24.3	23.5	30.6
70°	32.8	23.5	20.4	16.4	18.8	10.9	20.4	16.4	15.6
72.5°	17.2	9.5	7.9	7.9	8.7	5.5	12.5	7.1	5.5
75°	7.1	4.7	3.2	1.6	3.9	3.9	4.7	1.6	4.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.6	2.4	1.6	0.0	0.0	0.0	4.7	0.0	0.0
87.5°	0.0	1.6	0.8	0.0	0.0	0.0	1.6	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)