

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: P247835

Luminaire Tested: **LSR8B150D010 EC8B150930 8LBN0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247835
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-89)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150930 8LBN0LI
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12391.5 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.63
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

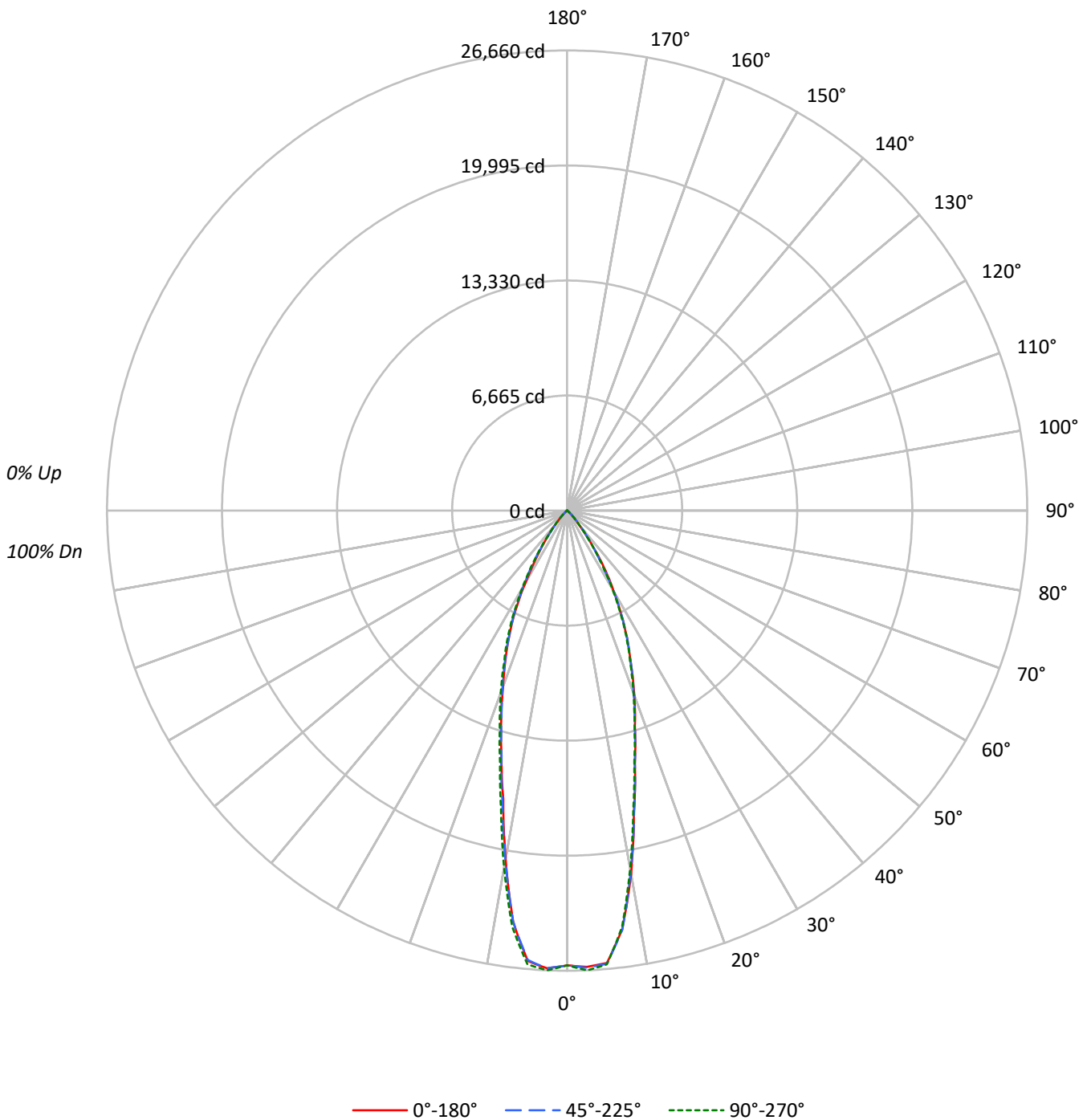
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
1	114	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	95	95	95				
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90	90	90				
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	90	88	86	85	85	85				
4	100	94	89	85	98	92	88	84	90	87	83	88	85	83	87	84	82	80	80	80				
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76	76	76				
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72	72	72				
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69	69	69				
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	67	65	65	65				
9	81	73	68	64	80	72	67	64	72	67	64	71	67	64	70	66	63	62	62	62				
10	78	70	65	61	77	69	64	61	69	64	61	68	64	61	67	63	61	60	60	60				

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°	2328.8	18.8
10°-20°	4220.1	34.1
20°-30°	3677.0	29.7
30°-40°	1751.4	14.1
40°-50°	363.9	2.9
50°-60°	28.9	0.2
60°-70°	11.2	0.1
70°-80°	5.0	0.0
80°-90°	5.2	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°	10225.9	82.5
0°-40°	11977.3	96.7
0°-60°	12370.2	99.8
0°-90°	12391.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12391.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	26347	26347	26347	26347	26347	
5°	26316	26358	26385	26138	26198	###
15°	15182	15183	15027	14716	14681	4287
25°	8252	8244	8154	7908	7882	3751
35°	2877	2780	2754	2614	2521	1842
45°	412	456	423	379	392	364
55°	29	22	22	20	15	31
65°	7	12	16	5	3	11
75°	14	9	8	10	6	7
85°	5	5	9	6	12	4
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°	26346.6	26346.6	26346.6	26346.6	26346.6	26346.6	26346.6	26346.6	26346.6
2.5°	26461.3	26466.4	26507.6	26625.7	26659.5	26633.2	26543.9	26511.8	26543.9
5°	26316.0	26298.7	26358.2	26445.7	26385.4	26277.2	26137.7	26105.5	26198.0
7.5°	24453.2	24441.6	24497.8	24491.2	24331.8	24127.7	24011.4	23919.7	23998.9
10°	21361.6	21258.3	21221.1	21286.3	21023.8	20742.2	20574.5	20636.5	20500.3
12.5°	17881.0	17866.9	17933.0	17852.8	17700.9	17528.3	17322.7	17212.1	17113.0
15°	15181.6	15218.7	15183.2	15150.2	15027.1	14897.5	14715.8	14639.0	14681.2
17.5°	13062.7	13051.9	13014.7	13070.1	12975.1	12789.3	12630.0	12657.2	12703.4
20°	11393.8	11348.3	11260.9	11284.0	11238.6	11094.1	10948.7	10851.3	10867.8
22.5°	9673.8	9713.4	9702.6	9634.1	9563.1	9457.4	9386.4	9259.2	9318.6
25°	8251.8	8258.4	8243.5	8233.6	8153.5	8051.9	7908.3	7877.7	7881.9
27.5°	6796.8	6828.2	6815.8	6773.6	6692.7	6607.7	6518.5	6448.3	6441.7
30°	5380.6	5425.2	5336.9	5276.5	5230.4	5215.5	5066.0	4961.1	4821.6
32.5°	4163.5	4097.4	3815.8	3816.7	3906.7	3942.1	3799.3	3561.5	3522.6
35°	2876.9	2865.4	2779.5	2753.1	2753.8	2719.2	2614.4	2521.9	2521.0
37.5°	1803.5	1846.4	1894.3	1883.5	1777.9	1670.5	1620.2	1674.7	1690.4
40°	1082.5	1138.7	1196.6	1203.2	1125.5	1001.6	985.9	1036.4	1083.4
42.5°	678.0	701.9	740.8	748.2	692.8	647.4	618.5	654.8	654.8
45°	412.1	434.4	455.8	457.5	422.8	384.8	379.0	393.0	391.5
47.5°	242.8	243.6	251.9	246.1	234.5	216.4	209.0	216.4	218.0
50°	114.0	111.4	115.6	126.3	112.3	94.9	96.6	90.8	81.7
52.5°	27.2	24.8	29.7	32.2	31.4	33.1	31.4	31.4	24.0
55°	28.9	18.2	22.3	23.1	21.5	23.1	19.8	13.2	14.9
57.5°	19.8	20.6	20.6	23.1	19.8	24.8	20.6	14.9	16.5
60°	19.8	14.0	13.2	22.3	18.2	12.3	14.0	18.9	4.9
62.5°	14.9	14.0	15.7	22.3	15.7	18.2	14.0	22.3	14.9
65°	7.4	12.3	12.3	12.3	15.7	14.0	4.9	9.9	3.3
67.5°	10.8	5.8	4.9	10.8	13.2	9.1	4.1	4.1	7.4
70°	3.3	4.9	2.5	5.8	6.6	5.8	4.1	0.8	0.0
72.5°	5.8	2.5	5.8	4.9	8.3	5.8	4.9	4.1	3.3
75°	14.0	10.8	9.1	9.9	8.3	4.9	9.9	9.9	5.8
77.5°	0.0	0.0	1.7	0.0	0.0	0.0	0.8	0.0	0.0
80°	7.4	5.8	5.8	5.8	3.3	4.9	2.5	0.8	9.1
82.5°	7.4	9.1	9.1	4.1	10.8	6.6	5.8	1.7	9.1
85°	4.9	9.1	4.9	4.1	9.1	7.4	5.8	2.5	12.3
87.5°	0.0	4.9	4.9	3.3	4.9	1.7	4.1	2.5	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)