

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: P247907

Luminaire Tested: **LSR8B150D010 EC8B150930 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-91)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150930 8LBS0LI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 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: 14977.7 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.24
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

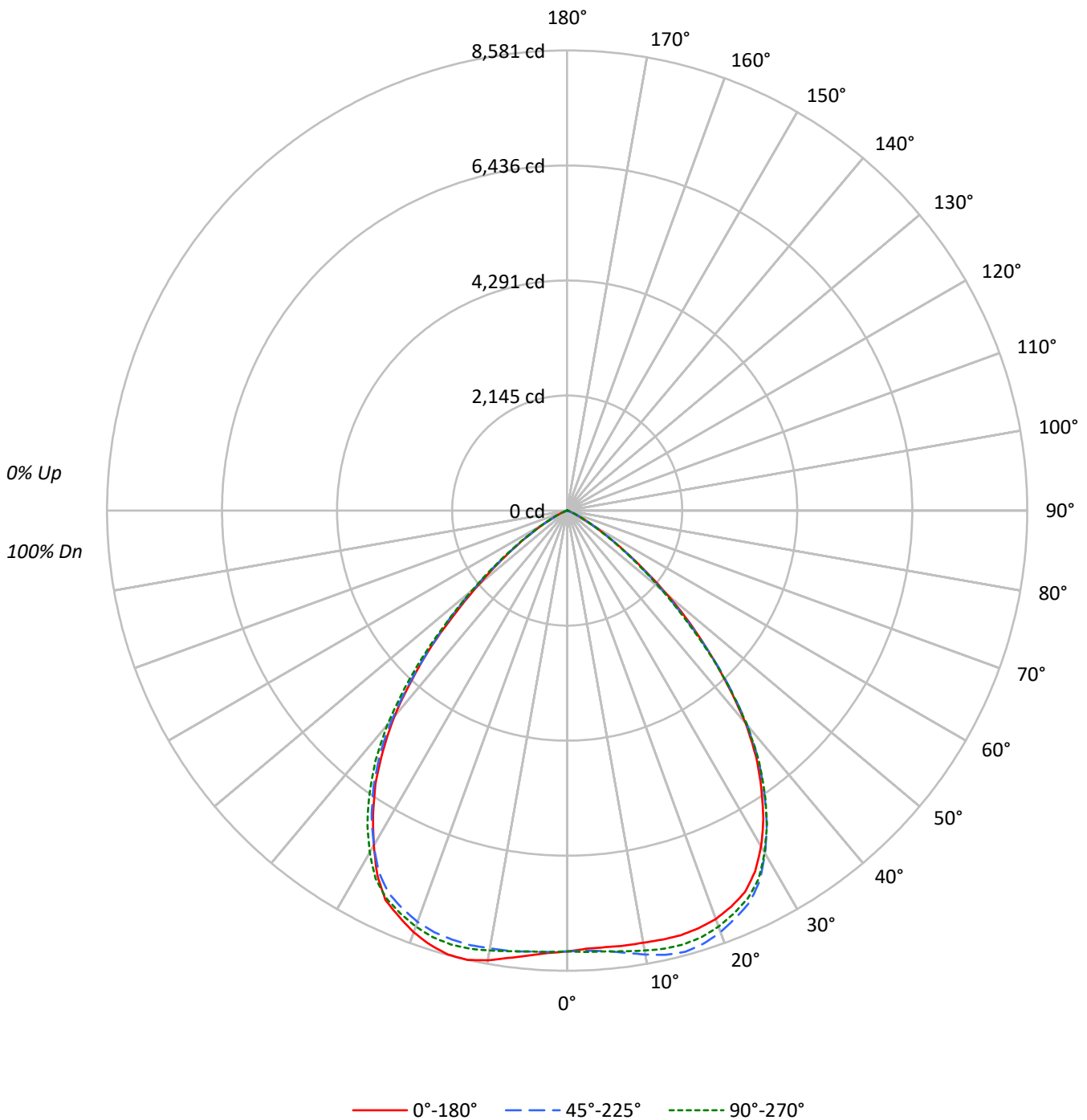
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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						
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91						
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82						
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73						
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66						
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59						
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53						
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48						
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	50	46	44						
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40						
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37						

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°	790.5	5.3
10°-20°	2366.9	15.8
20°-30°	3637.7	24.3
30°-40°	3935.4	26.3
40°-50°	2836.5	18.9
50°-60°	1151.4	7.7
60°-70°	230.0	1.5
70°-80°	23.0	0.2
80°-90°	6.2	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°	6795.2	45.4
0°-40°	10730.6	71.6
0°-60°	14718.5	98.3
0°-90°	14977.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14977.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8220	8220	8220	8220	8220	
5°	8173	8243	8252	8255	8328	781
15°	8198	8516	8376	8282	8570	2316
25°	7848	8057	7976	7874	8015	3587
35°	6310	6403	6421	6290	6232	3918
45°	3750	3768	3720	3595	3577	2893
55°	1286	1246	1240	1198	1161	1206
65°	200	216	192	183	197	238
75°	18	22	20	19	20	24
85°	7	11	14	7	6	6
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°	8220.3	8220.3	8220.3	8220.3	8220.3	8220.3	8220.3	8220.3	8220.3
2.5°	8178.1	8230.2	8212.8	8190.6	8237.6	8228.5	8238.5	8242.6	8258.3
5°	8173.2	8231.8	8242.6	8218.6	8251.7	8236.0	8254.9	8290.5	8328.5
7.5°	8181.5	8269.8	8316.0	8302.0	8286.3	8232.6	8282.2	8364.0	8414.3
10°	8181.5	8298.8	8406.0	8405.3	8330.9	8231.1	8286.3	8427.6	8515.9
12.5°	8194.6	8338.3	8485.4	8495.3	8368.9	8242.6	8302.0	8468.8	8581.1
15°	8198.0	8339.2	8515.9	8520.8	8375.6	8226.9	8282.2	8461.4	8570.4
17.5°	8163.2	8299.5	8467.1	8484.5	8338.3	8187.2	8243.4	8403.6	8490.3
20°	8105.5	8227.7	8364.0	8392.8	8254.9	8111.2	8160.8	8298.8	8368.9
22.5°	7994.9	8106.3	8218.6	8240.1	8129.4	8003.9	8028.7	8136.0	8194.6
25°	7847.8	7958.4	8056.7	8068.3	7975.8	7863.5	7873.5	7955.2	8014.6
27.5°	7586.8	7691.7	7781.0	7795.0	7739.6	7619.9	7601.7	7640.5	7665.3
30°	7233.4	7305.2	7379.5	7424.2	7359.8	7260.6	7209.5	7230.1	7207.8
32.5°	6809.0	6882.4	6927.9	6941.9	6931.9	6845.3	6785.0	6733.0	6736.3
35°	6310.1	6377.0	6402.6	6428.3	6420.8	6353.0	6289.5	6240.7	6231.6
37.5°	5787.4	5832.0	5860.9	5880.7	5864.2	5821.2	5738.6	5654.4	5640.4
40°	5173.8	5241.5	5218.4	5228.3	5212.6	5158.1	5075.6	5027.6	5014.5
42.5°	4453.7	4513.1	4508.2	4511.5	4476.8	4402.5	4330.6	4304.2	4290.2
45°	3750.1	3779.0	3768.2	3733.6	3719.5	3673.3	3594.8	3544.5	3577.4
47.5°	3087.8	3077.8	3006.0	2977.9	2957.3	2963.9	2946.5	2858.2	2810.2
50°	2422.1	2396.6	2328.0	2285.8	2309.0	2327.2	2262.7	2209.9	2151.3
52.5°	1796.2	1801.1	1735.9	1689.7	1711.1	1714.5	1676.5	1646.7	1629.4
55°	1285.8	1285.8	1246.2	1231.3	1239.6	1223.9	1197.5	1187.6	1161.1
57.5°	874.6	880.3	877.9	860.5	821.7	807.7	792.8	807.7	816.8
60°	562.4	576.4	574.0	572.3	539.3	506.2	520.3	533.5	535.2
62.5°	346.1	352.7	364.2	354.2	337.8	311.3	308.1	327.9	346.1
65°	199.9	207.3	216.4	209.7	192.4	188.3	183.3	194.0	197.4
67.5°	114.0	110.6	111.5	106.5	101.6	95.8	96.6	101.6	109.0
70°	60.3	52.0	52.8	47.9	52.0	46.3	44.6	48.8	50.3
72.5°	30.6	29.7	33.9	33.9	36.3	32.2	32.2	30.6	34.6
75°	18.2	20.6	22.3	24.8	19.8	18.9	18.9	18.9	19.8
77.5°	4.9	2.5	3.3	10.8	4.1	8.3	4.1	3.3	7.4
80°	14.0	8.3	4.9	9.1	9.9	4.9	12.4	11.5	3.3
82.5°	4.9	0.0	9.1	9.9	8.3	8.3	9.9	9.9	9.1
85°	7.4	4.9	10.8	12.4	14.0	8.3	6.6	4.1	5.8
87.5°	3.3	0.0	4.9	4.1	2.5	0.8	2.5	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)