

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: P247979

Luminaire Tested: **LSR8B150D010 EC8B150930 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-92)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150930 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14557.3 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

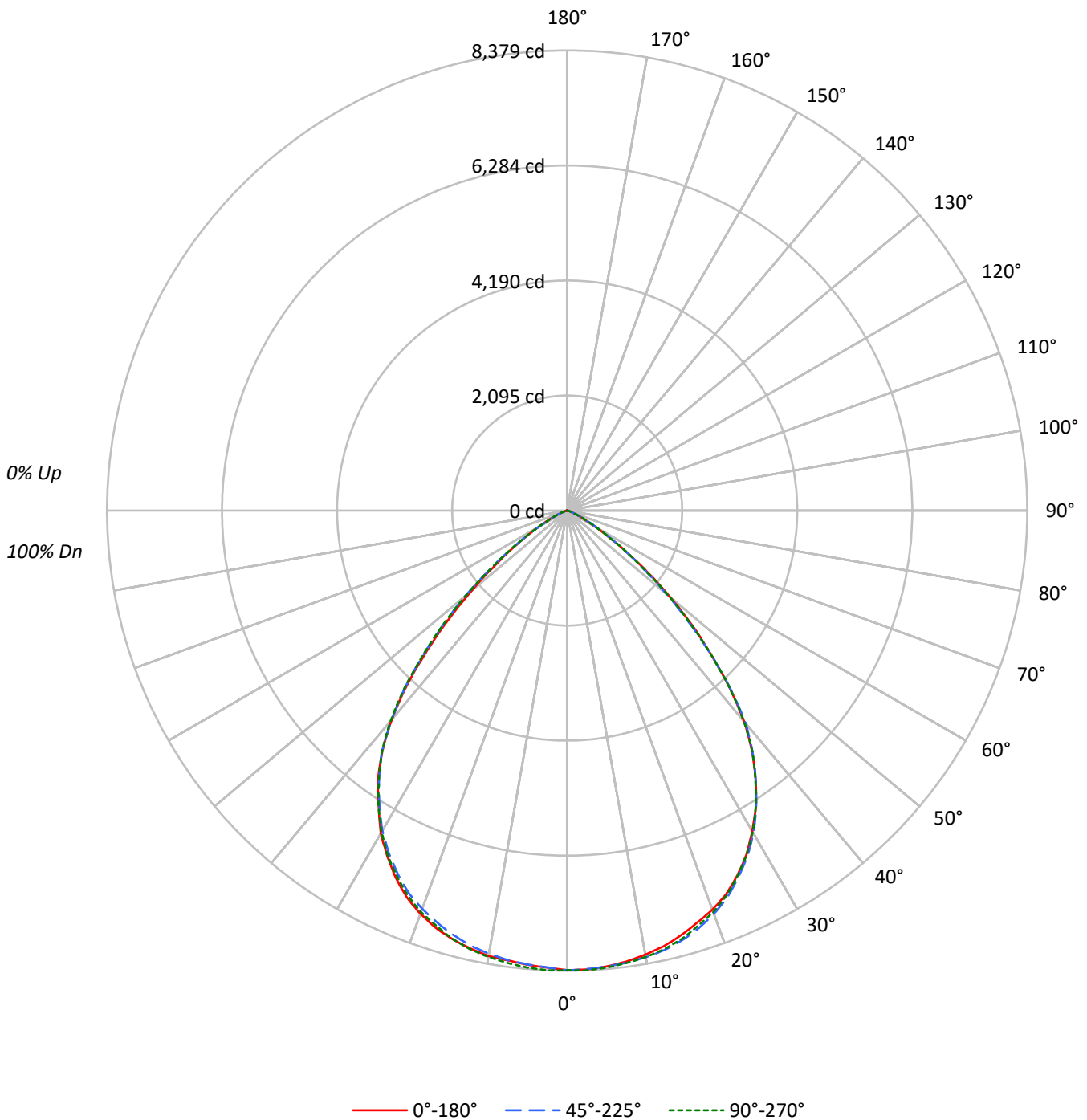
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	107	104	101	103	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48
8	70	58	51	46	68	58	51	46	56	50	46	55	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	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°	792.5	5.4
10°-20°	2273.2	15.6
20°-30°	3377.1	23.2
30°-40°	3721.7	25.6
40°-50°	2834.7	19.5
50°-60°	1222.0	8.4
60°-70°	280.7	1.9
70°-80°	46.6	0.3
80°-90°	8.8	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°	6442.8	44.3
0°-40°	10164.5	69.8
0°-60°	14221.2	97.7
0°-90°	14557.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14557.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8370	8370	8370	8370	8370	
5°	8332	8332	8352	8296	8302	791
15°	8008	8097	8072	8001	8078	2259
25°	7332	7374	7341	7298	7382	3365
35°	5986	5990	5976	5971	6010	3717
45°	3700	3693	3700	3680	3606	2855
55°	1330	1329	1320	1328	1259	1240
65°	245	269	255	254	259	274
75°	50	50	50	51	44	46
85°	7	5	5	15	11	7
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°	8370.5	8370.5	8370.5	8370.5	8370.5	8370.5	8370.5	8370.5	8370.5
2.5°	8361.4	8362.2	8356.5	8368.8	8378.8	8346.5	8327.6	8370.5	8329.3
5°	8332.5	8338.3	8331.7	8347.4	8352.3	8325.9	8296.2	8342.4	8301.9
7.5°	8283.0	8294.5	8304.5	8322.6	8309.4	8276.3	8256.5	8311.1	8261.4
10°	8208.6	8237.6	8259.0	8286.2	8254.0	8218.5	8194.6	8268.9	8235.9
12.5°	8125.2	8158.3	8194.6	8227.6	8178.9	8126.9	8114.5	8193.7	8164.0
15°	8008.0	8038.5	8097.1	8128.5	8072.3	8012.9	8000.6	8101.2	8078.2
17.5°	7870.1	7923.7	7973.2	7998.0	7927.0	7875.8	7869.2	7973.2	7964.1
20°	7733.8	7762.7	7813.9	7846.9	7779.2	7718.1	7715.6	7823.0	7813.9
22.5°	7561.1	7586.8	7620.7	7651.2	7587.6	7536.4	7539.7	7628.1	7626.4
25°	7332.5	7349.8	7373.7	7407.6	7340.8	7304.3	7297.7	7391.9	7382.0
27.5°	7065.7	7077.2	7104.6	7133.4	7075.6	7043.4	7031.8	7126.0	7092.9
30°	6741.1	6767.6	6786.5	6799.0	6756.0	6736.2	6727.9	6802.2	6786.5
32.5°	6396.8	6405.8	6406.7	6437.2	6391.8	6363.8	6363.8	6423.2	6387.7
35°	5986.4	5984.7	5989.6	6022.7	5975.6	5985.6	5970.7	6017.8	6010.4
37.5°	5536.3	5543.7	5545.4	5571.8	5545.4	5552.0	5546.1	5553.7	5529.7
40°	5019.3	5051.6	5062.2	5057.3	5006.2	4988.8	4973.9	5001.1	4970.6
42.5°	4377.6	4392.5	4394.2	4397.5	4383.4	4381.0	4362.8	4374.4	4326.5
45°	3700.5	3707.1	3693.0	3690.6	3699.6	3713.8	3679.8	3653.5	3606.4
47.5°	3082.0	3058.9	2995.2	3018.4	3028.3	3063.8	3027.5	2956.4	2917.6
50°	2431.2	2407.2	2358.6	2369.2	2408.1	2461.7	2419.7	2321.4	2269.4
52.5°	1857.3	1830.0	1775.6	1785.4	1797.0	1837.4	1815.1	1748.3	1697.9
55°	1329.6	1310.6	1328.7	1313.9	1319.6	1358.4	1327.9	1272.6	1259.3
57.5°	898.5	909.2	924.0	926.6	915.0	903.4	899.3	877.9	889.4
60°	595.4	603.7	628.4	635.8	618.6	593.8	598.7	598.7	609.5
62.5°	384.8	392.2	421.2	426.1	401.3	394.7	394.7	392.2	412.1
65°	245.3	260.2	269.3	256.0	255.1	246.1	253.6	253.6	259.3
67.5°	147.0	133.7	142.8	148.6	142.8	135.4	133.7	134.6	142.8
70°	85.1	81.7	87.6	84.2	87.6	76.0	85.1	80.9	83.4
72.5°	54.5	53.7	53.7	56.9	53.7	52.0	55.4	47.9	52.8
75°	50.3	50.3	50.3	43.7	50.3	48.8	51.2	38.8	43.7
77.5°	19.8	23.1	28.0	27.2	27.2	25.6	23.1	19.8	30.6
80°	18.2	16.5	22.3	26.5	16.5	19.8	22.3	14.0	14.9
82.5°	9.1	8.3	10.8	10.8	10.8	5.8	14.9	9.1	7.4
85°	7.4	3.3	4.9	4.9	4.9	6.6	14.9	4.1	10.8
87.5°	1.7	2.5	4.1	4.1	4.9	8.3	14.9	3.3	12.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)