

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: P247904

Luminaire Tested: **LSR8B150D010 EC8B150927 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247904
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 EC8B150927 8LBS0LI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14207.7 lumens
Efficiency: N/A
Efficacy: 89.6 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

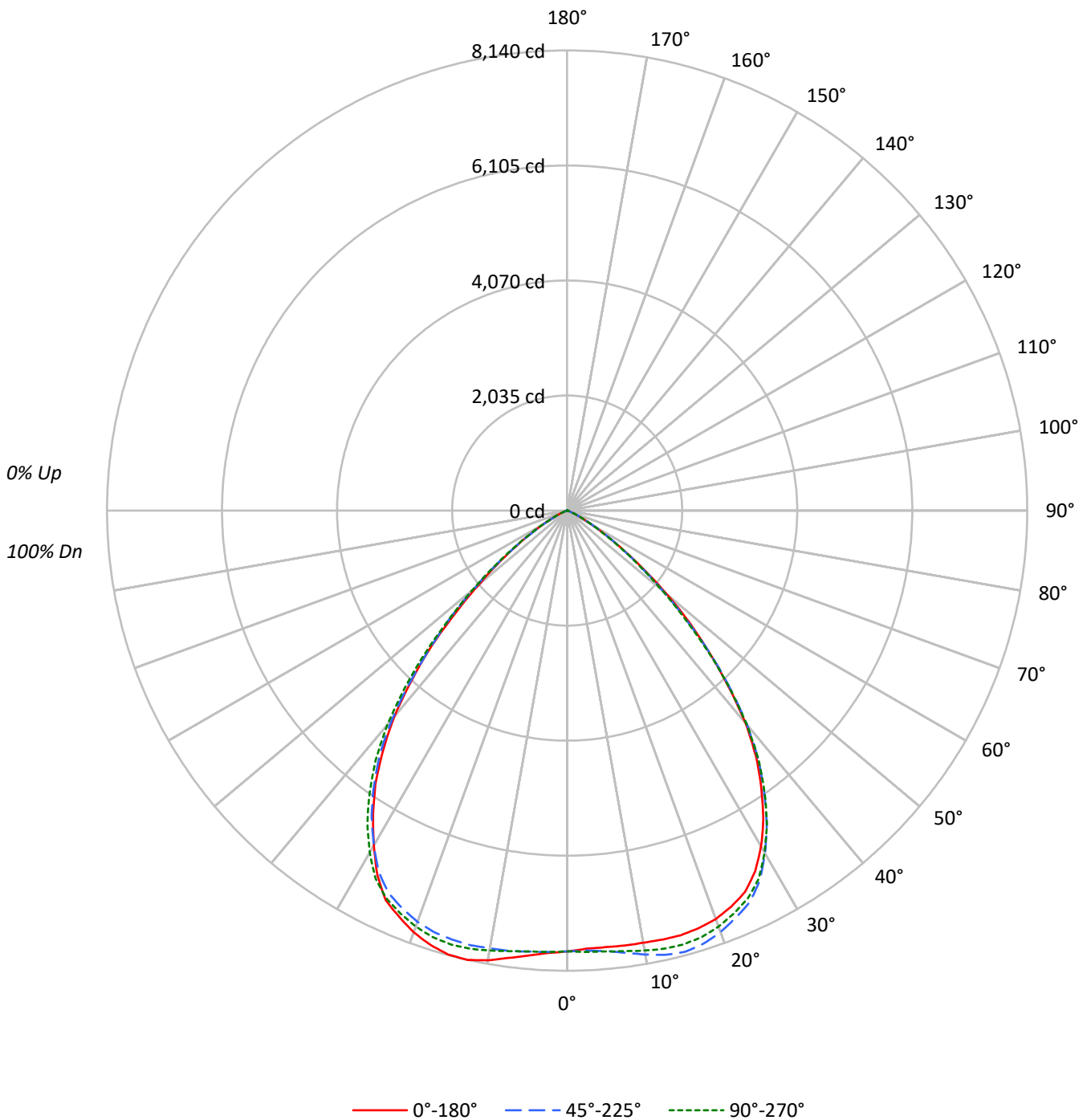
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	749.9	5.3
10°-20°	2245.2	15.8
20°-30°	3450.7	24.3
30°-40°	3733.0	26.3
40°-50°	2690.7	18.9
50°-60°	1092.2	7.7
60°-70°	218.1	1.5
70°-80°	21.9	0.2
80°-90°	5.9	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°	6445.8	45.4
0°-40°	10178.9	71.6
0°-60°	13961.8	98.3
0°-90°	14207.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14207.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7798	7798	7798	7798	7798	
5°	7753	7819	7827	7831	7900	741
15°	7776	8078	7945	7856	8130	2197
25°	7444	7643	7566	7469	7602	3403
35°	5986	6073	6091	5966	5911	3717
45°	3557	3574	3528	3410	3394	2744
55°	1220	1182	1176	1136	1101	1144
65°	190	205	182	174	187	226
75°	17	21	19	18	19	23
85°	7	10	13	6	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°	7797.6	7797.6	7797.6	7797.6	7797.6	7797.6	7797.6	7797.6	7797.6
2.5°	7757.7	7807.0	7790.6	7769.5	7814.1	7805.5	7814.8	7818.8	7833.7
5°	7752.9	7808.6	7818.8	7796.0	7827.4	7812.6	7830.6	7864.2	7900.2
7.5°	7760.8	7844.6	7888.5	7875.2	7860.3	7809.4	7856.4	7934.0	7981.8
10°	7760.8	7872.1	7973.9	7973.1	7902.6	7807.8	7860.3	7994.2	8078.1
12.5°	7773.3	7909.6	8049.2	8058.5	7938.7	7818.8	7875.2	8033.4	8139.9
15°	7776.4	7910.4	8078.1	8082.8	7944.9	7803.9	7856.4	8026.4	8129.8
17.5°	7743.6	7872.9	8031.8	8048.4	7909.6	7766.3	7819.5	7971.5	8053.8
20°	7688.7	7804.7	7934.0	7961.4	7830.6	7694.2	7741.2	7872.1	7938.7
22.5°	7583.7	7689.5	7796.0	7816.4	7711.4	7592.4	7615.9	7717.7	7773.3
25°	7444.4	7549.3	7642.6	7653.5	7565.7	7459.2	7468.6	7546.2	7602.5
27.5°	7196.7	7296.3	7380.9	7394.2	7341.8	7228.1	7210.9	7247.7	7271.2
30°	6861.5	6929.7	7000.2	7042.5	6981.4	6887.4	6838.8	6858.3	6837.2
32.5°	6458.8	6528.6	6571.7	6585.0	6575.6	6493.3	6436.1	6386.7	6389.9
35°	5985.7	6049.1	6073.4	6097.7	6090.6	6026.4	5966.1	5919.9	5911.3
37.5°	5489.9	5532.2	5559.5	5578.3	5562.7	5522.0	5443.7	5363.7	5350.4
40°	4907.8	4972.0	4950.1	4959.4	4944.6	4893.0	4814.6	4769.1	4756.6
42.5°	4224.7	4281.1	4276.3	4279.5	4246.7	4176.1	4107.9	4083.0	4069.6
45°	3557.2	3584.7	3574.5	3541.6	3528.3	3484.5	3410.0	3362.2	3393.6
47.5°	2929.0	2919.6	2851.4	2824.9	2805.2	2811.5	2795.1	2711.2	2665.8
50°	2297.6	2273.3	2208.3	2168.3	2190.3	2207.5	2146.4	2096.3	2040.6
52.5°	1703.8	1708.5	1646.7	1602.8	1623.1	1626.3	1590.2	1562.1	1545.6
55°	1219.7	1219.7	1182.1	1168.0	1175.9	1161.0	1135.9	1126.5	1101.4
57.5°	829.6	835.1	832.7	816.3	779.4	766.1	752.1	766.1	774.8
60°	533.5	546.8	544.4	542.9	511.5	480.2	493.5	506.0	507.6
62.5°	328.3	334.5	345.5	336.0	320.4	295.3	292.2	311.0	328.3
65°	189.6	196.6	205.2	199.0	182.5	178.6	173.9	184.0	187.2
67.5°	108.1	105.0	105.8	101.0	96.3	90.9	91.7	96.3	103.4
70°	57.2	49.4	50.2	45.4	49.4	43.9	42.3	46.2	47.8
72.5°	29.0	28.2	32.1	32.1	34.4	30.6	30.6	29.0	32.8
75°	17.2	19.6	21.2	23.5	18.8	18.0	18.0	18.0	18.8
77.5°	4.7	2.4	3.2	10.2	3.9	7.9	3.9	3.2	7.1
80°	13.3	7.9	4.7	8.7	9.5	4.7	11.7	10.9	3.2
82.5°	4.7	0.0	8.7	9.5	7.9	7.9	9.5	9.5	8.7
85°	7.1	4.7	10.2	11.7	13.3	7.9	6.3	3.9	5.5
87.5°	3.2	0.0	4.7	3.9	2.4	0.8	2.4	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)