

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: P247832

Luminaire Tested: **LSR8B150D010 EC8B150927 8LBN0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247832
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 EC8B150927 8LBN0LI
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 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: 11754.1 lumens
Efficiency: N/A
Efficacy: 74.2 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

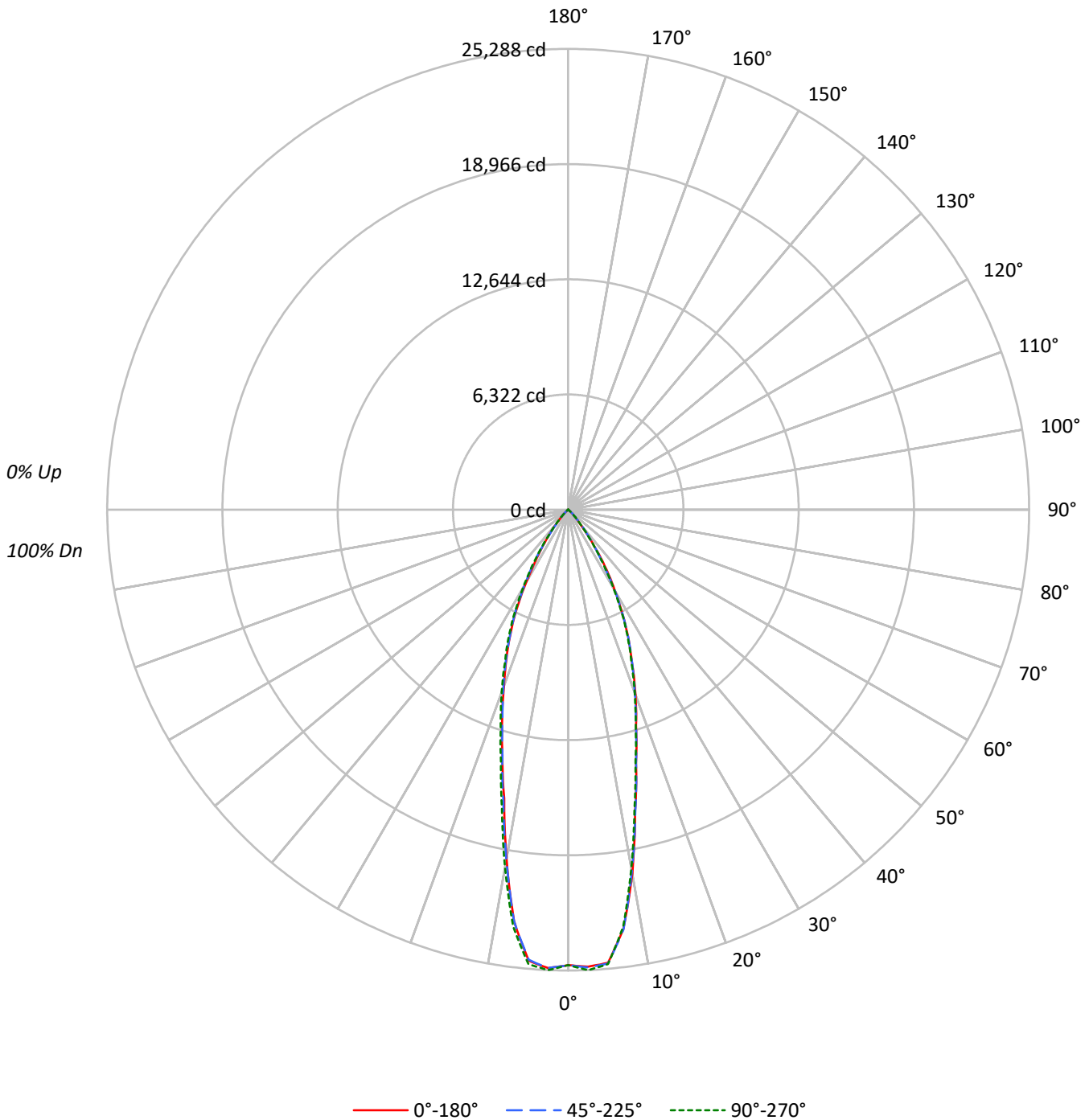
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	114	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	95	95	95	95			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90	90	90	90			
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	90	88	86	85	85	85	85			
4	100	94	89	85	98	92	88	84	90	87	83	88	85	83	87	84	82	80	80	80	80			
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76	76	76	76			
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72	72	72	72			
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69	69	69	69			
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	67	65	65	65	65			
9	81	73	68	64	80	72	67	64	72	67	64	71	67	64	70	66	63	62	62	62	62			
10	78	70	65	61	77	69	64	61	69	64	61	68	64	61	67	63	61	60	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°	2209.0	18.8
10°-20°	4002.9	34.1
20°-30°	3487.9	29.7
30°-40°	1661.3	14.1
40°-50°	345.2	2.9
50°-60°	27.4	0.2
60°-70°	10.6	0.1
70°-80°	4.7	0.0
80°-90°	4.9	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°	9699.8	82.5
0°-40°	11361.1	96.7
0°-60°	11733.8	99.8
0°-90°	11754.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11754.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	24991	24991	24991	24991	24991	
5°	24962	25002	25028	24793	24850	###
15°	14400	14402	14254	13959	13926	4067
25°	7827	7819	7734	7501	7476	3558
35°	2729	2636	2612	2480	2391	1747
45°	391	432	401	360	371	345
55°	27	21	20	19	14	30
65°	7	12	15	5	3	10
75°	13	9	8	10	6	6
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°	24991.1	24991.1	24991.1	24991.1	24991.1	24991.1	24991.1	24991.1	24991.1
2.5°	25100.0	25104.6	25143.9	25255.8	25288.0	25262.9	25178.3	25147.7	25178.3
5°	24962.1	24945.6	25002.0	25085.0	25027.9	24925.3	24792.9	24762.4	24850.1
7.5°	23195.0	23184.1	23237.3	23231.0	23079.9	22886.4	22776.0	22689.0	22764.3
10°	20262.5	20164.6	20129.3	20191.2	19942.1	19675.0	19516.0	19574.8	19445.5
12.5°	16961.0	16947.7	17010.3	16934.4	16790.2	16626.5	16431.5	16326.6	16232.5
15°	14400.4	14435.7	14402.0	14370.8	14254.0	14131.0	13958.7	13885.9	13925.8
17.5°	12390.6	12380.4	12345.2	12397.6	12307.5	12131.3	11980.1	12006.0	12049.9
20°	10807.5	10764.6	10681.5	10703.4	10660.4	10523.2	10385.4	10293.0	10308.6
22.5°	9176.1	9213.6	9203.4	9138.5	9071.1	8970.9	8903.5	8782.9	8839.2
25°	7827.2	7833.5	7819.4	7810.0	7734.0	7637.7	7501.4	7472.4	7476.3
27.5°	6447.2	6476.8	6465.2	6425.2	6348.4	6267.7	6183.1	6116.6	6110.3
30°	5103.8	5146.1	5062.3	5005.1	4961.2	4947.2	4805.3	4705.9	4573.6
32.5°	3949.3	3886.6	3619.5	3620.2	3705.6	3739.4	3603.8	3378.3	3341.5
35°	2728.9	2718.0	2636.5	2611.5	2612.2	2579.3	2479.8	2392.1	2391.3
37.5°	1710.7	1751.4	1796.8	1786.6	1686.4	1584.6	1536.8	1588.5	1603.4
40°	1026.9	1080.1	1135.0	1141.2	1067.6	950.1	935.2	983.0	1027.7
42.5°	643.1	665.8	702.6	709.6	657.1	614.1	586.7	621.1	621.1
45°	390.8	412.0	432.3	433.9	401.1	365.0	359.6	372.8	371.2
47.5°	230.3	231.1	239.0	233.4	222.4	205.2	198.1	205.2	206.8
50°	108.1	105.8	109.7	119.8	106.5	90.1	91.7	86.2	77.5
52.5°	25.9	23.5	28.2	30.6	29.8	31.3	29.8	29.8	22.7
55°	27.4	17.2	21.2	21.9	20.4	21.9	18.8	12.5	14.1
57.5°	18.8	19.6	19.6	21.9	18.8	23.5	19.6	14.1	15.6
60°	18.8	13.3	12.5	21.2	17.2	11.7	13.3	18.0	4.7
62.5°	14.1	13.3	14.8	21.2	14.8	17.2	13.3	21.2	14.1
65°	7.1	11.7	11.7	11.7	14.8	13.3	4.7	9.5	3.2
67.5°	10.2	5.5	4.7	10.2	12.5	8.7	3.9	3.9	7.1
70°	3.2	4.7	2.4	5.5	6.3	5.5	3.9	0.8	0.0
72.5°	5.5	2.4	5.5	4.7	7.9	5.5	4.7	3.9	3.2
75°	13.3	10.2	8.7	9.5	7.9	4.7	9.5	9.5	5.5
77.5°	0.0	0.0	1.6	0.0	0.0	0.0	0.8	0.0	0.0
80°	7.1	5.5	5.5	5.5	3.2	4.7	2.4	0.8	8.7
82.5°	7.1	8.7	8.7	3.9	10.2	6.3	5.5	1.6	8.7
85°	4.7	8.7	4.7	3.9	8.7	7.1	5.5	2.4	11.7
87.5°	0.0	4.7	4.7	3.2	4.7	1.6	3.9	2.4	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)