

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 EC8B1509727 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 EC8B1509727 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: 10448.0 lumens
Efficiency: N/A
Efficacy: 65.9 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

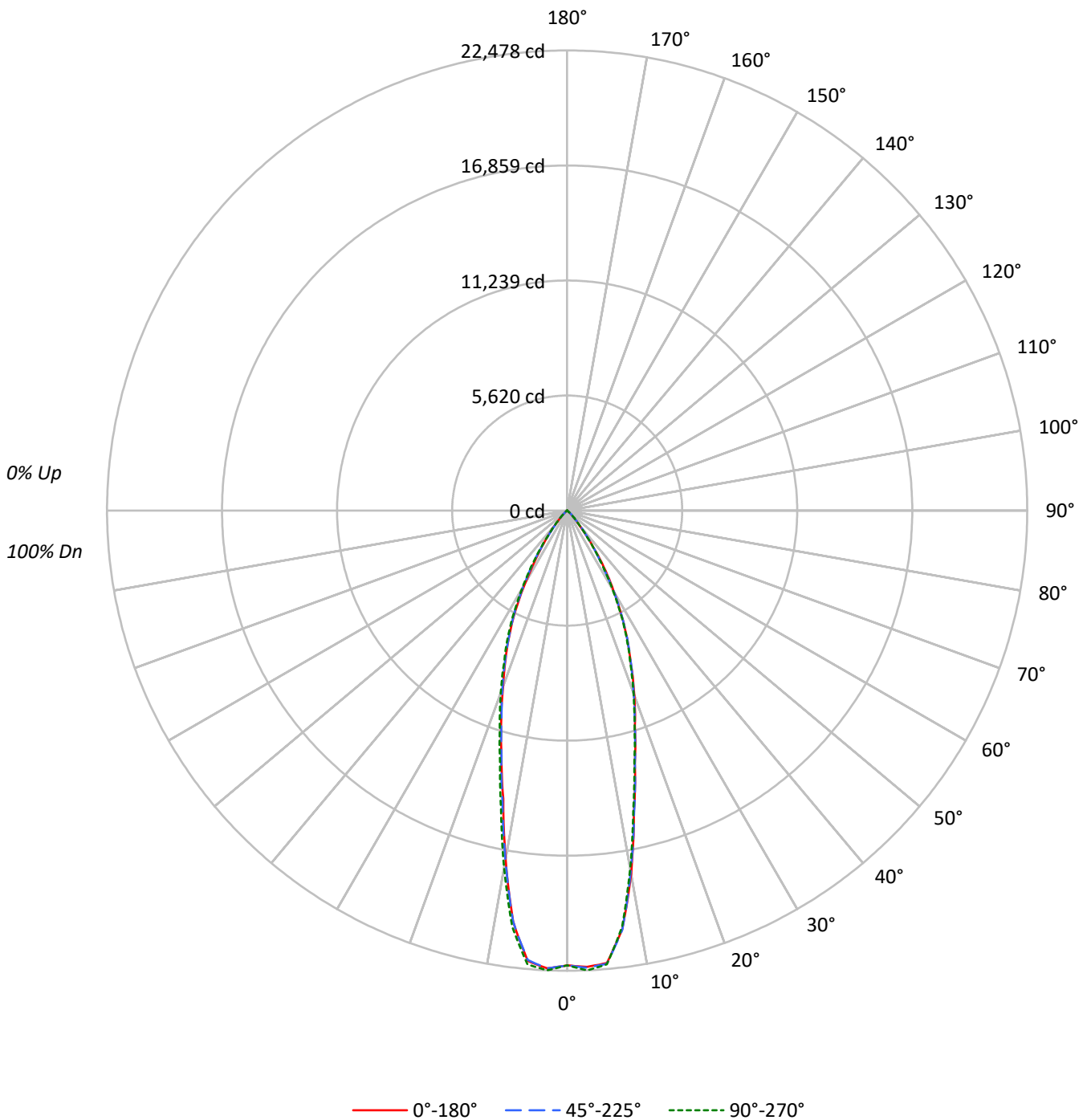
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1963.5	18.8
10°-20°	3558.2	34.1
20°-30°	3100.3	29.7
30°-40°	1476.7	14.1
40°-50°	306.8	2.9
50°-60°	24.4	0.2
60°-70°	9.4	0.1
70°-80°	4.2	0.0
80°-90°	4.4	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°	8622.0	82.5
0°-40°	10098.8	96.7
0°-60°	10430.0	99.8
0°-90°	10448.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10448.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	22214	22214	22214	22214	22214	
5°	22188	22224	22247	22038	22089	###
15°	12800	12802	12670	12408	12378	3615
25°	6958	6951	6875	6668	6646	3163
35°	2426	2344	2322	2204	2126	1553
45°	347	384	356	320	330	307
55°	24	19	18	17	12	27
65°	6	10	13	4	3	9
75°	12	8	7	8	5	6
85°	4	4	8	5	10	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°	22214.3	22214.3	22214.3	22214.3	22214.3	22214.3	22214.3	22214.3	22214.3
2.5°	22311.1	22315.2	22350.1	22449.6	22478.2	22455.9	22380.7	22353.5	22380.7
5°	22188.5	22173.9	22224.0	22297.8	22247.0	22155.8	22038.1	22011.0	22089.0
7.5°	20617.8	20608.1	20655.4	20649.8	20515.5	20343.5	20245.3	20168.0	20234.9
10°	18011.1	17924.1	17892.7	17947.7	17726.3	17488.9	17347.6	17399.8	17284.9
12.5°	15076.4	15064.6	15120.3	15052.8	14924.6	14779.1	14605.8	14512.5	14428.9
15°	12800.4	12831.7	12801.8	12774.0	12670.2	12560.9	12407.7	12343.0	12378.5
17.5°	11013.9	11004.8	10973.5	11020.1	10940.0	10783.4	10649.0	10672.0	10711.0
20°	9606.7	9568.5	9494.7	9514.1	9475.9	9354.0	9231.5	9149.3	9163.2
22.5°	8156.5	8189.9	8180.8	8123.1	8063.2	7974.1	7914.2	7807.0	7857.1
25°	6957.5	6963.1	6950.6	6942.2	6874.7	6789.1	6667.9	6642.1	6645.6
27.5°	5730.8	5757.2	5746.8	5711.3	5643.0	5571.3	5496.1	5437.0	5431.4
30°	4536.7	4574.3	4499.8	4449.0	4410.0	4397.5	4271.4	4183.0	4065.4
32.5°	3510.5	3454.8	3217.3	3218.0	3293.9	3323.9	3203.4	3002.9	2970.2
35°	2425.7	2416.0	2343.6	2321.3	2322.0	2292.7	2204.3	2126.3	2125.6
37.5°	1520.6	1556.8	1597.2	1588.1	1499.0	1408.5	1366.0	1412.0	1425.2
40°	912.8	960.1	1008.9	1014.4	949.0	844.5	831.3	873.8	913.5
42.5°	571.6	591.8	624.5	630.8	584.1	545.9	521.5	552.1	552.1
45°	347.4	366.2	384.3	385.7	356.5	324.4	319.6	331.4	330.0
47.5°	204.7	205.4	212.4	207.5	197.7	182.4	176.1	182.4	183.8
50°	96.1	94.0	97.5	106.5	94.7	80.1	81.5	76.6	68.9
52.5°	23.0	20.9	25.1	27.2	26.5	27.8	26.5	26.5	20.2
55°	24.4	15.3	18.8	19.5	18.1	19.5	16.7	11.1	12.5
57.5°	16.7	17.4	17.4	19.5	16.7	20.9	17.4	12.5	13.9
60°	16.7	11.8	11.1	18.8	15.3	10.4	11.8	16.0	4.2
62.5°	12.5	11.8	13.2	18.8	13.2	15.3	11.8	18.8	12.5
65°	6.3	10.4	10.4	10.4	13.2	11.8	4.2	8.4	2.8
67.5°	9.1	4.9	4.2	9.1	11.1	7.7	3.5	3.5	6.3
70°	2.8	4.2	2.1	4.9	5.6	4.9	3.5	0.7	0.0
72.5°	4.9	2.1	4.9	4.2	7.0	4.9	4.2	3.5	2.8
75°	11.8	9.1	7.7	8.4	7.0	4.2	8.4	8.4	4.9
77.5°	0.0	0.0	1.4	0.0	0.0	0.0	0.7	0.0	0.0
80°	6.3	4.9	4.9	4.9	2.8	4.2	2.1	0.7	7.7
82.5°	6.3	7.7	7.7	3.5	9.1	5.6	4.9	1.4	7.7
85°	4.2	7.7	4.2	3.5	7.7	6.3	4.9	2.1	10.4
87.5°	0.0	4.2	4.2	2.8	4.2	1.4	3.5	2.1	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)