

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: P247280

Luminaire Tested: **LSR8B100D010 EC8B100927 8LBW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247280
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-59)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100927 8LBW0WMH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8398.1 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.14 / 1.06
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

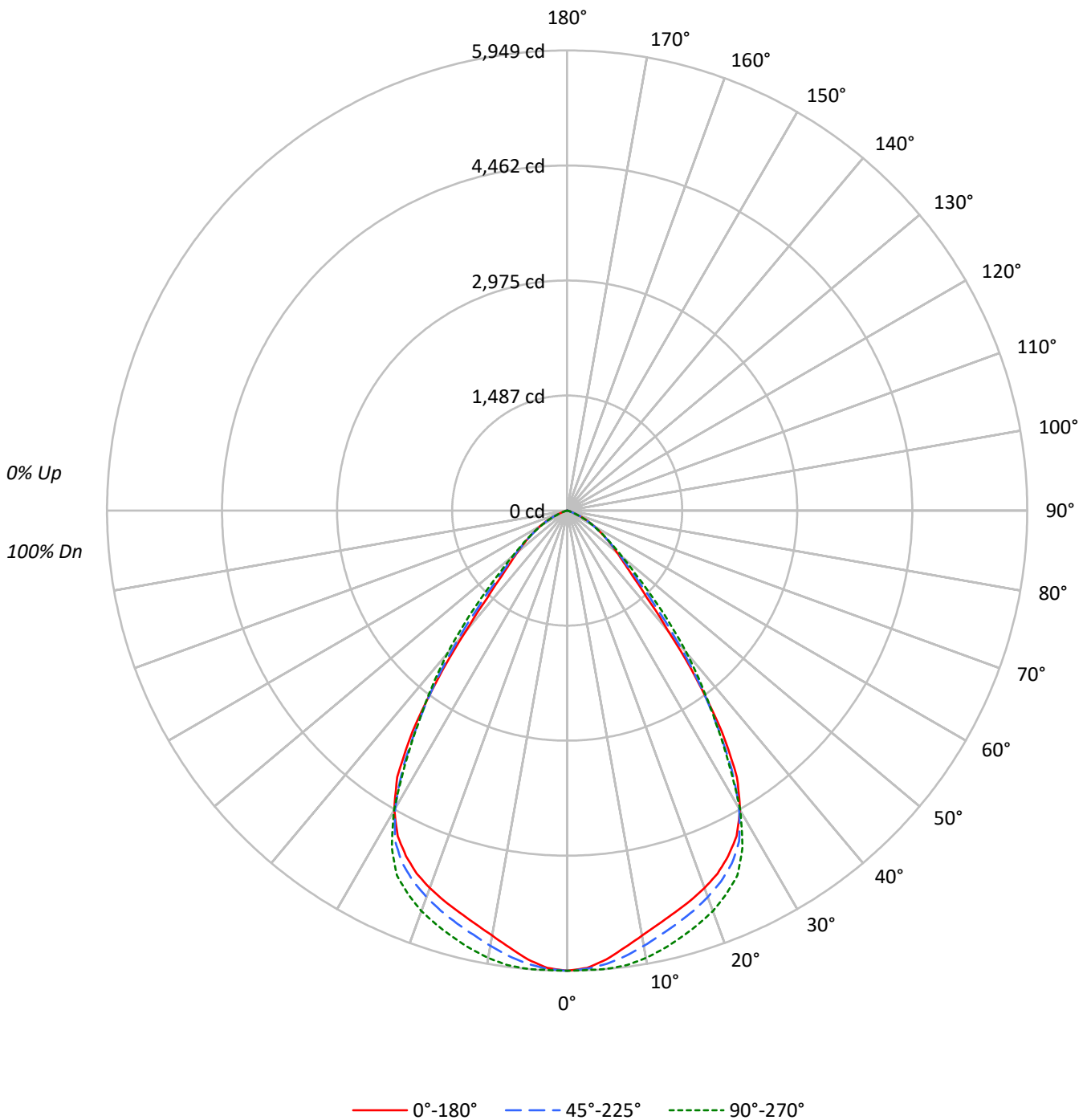
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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			
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83					83			
3	99	91	85	81	97	90	84	80	87	83	79	85	81	78	82	79	76	75					75			
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68					68			
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61					61			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56					56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51					51			
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47					47			
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44					44			
10	65	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
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°	556.3	6.6
10°-20°	1562.2	18.6
20°-30°	2300.8	27.4
30°-40°	2092.7	24.9
40°-50°	1083.3	12.9
50°-60°	542.7	6.5
60°-70°	221.0	2.6
70°-80°	35.2	0.4
80°-90°	3.8	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°	4419.4	52.6
0°-40°	6512.0	77.5
0°-60°	8138.0	96.9
0°-90°	8398.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8398.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5949	5949	5949	5949	5949	
5°	5825	5840	5881	5926	5946	548
15°	5379	5416	5522	5649	5710	1520
25°	4928	4962	5037	5152	5206	2256
35°	3484	3461	3360	3332	3352	2101
45°	1194	1236	1327	1430	1494	984
55°	590	588	588	600	610	536
65°	228	227	219	216	213	230
75°	30	30	27	25	25	39
85°	3	3	3	2	2	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5949.0	5949.0	5949.0	5949.0	5949.0
2.5°	5917.5	5920.5	5928.8	5937.9	5945.0
5°	5824.9	5840.1	5880.8	5925.6	5946.0
7.5°	5698.7	5732.2	5806.6	5890.0	5926.6
10°	5578.5	5617.2	5713.9	5825.9	5872.7
12.5°	5472.7	5510.2	5615.2	5740.4	5798.4
15°	5379.0	5415.6	5521.5	5648.7	5709.8
17.5°	5290.4	5324.1	5424.8	5552.0	5614.1
20°	5191.7	5221.2	5316.9	5440.0	5509.2
22.5°	5079.7	5102.1	5191.7	5308.8	5369.8
25°	4928.1	4961.6	5037.0	5151.9	5205.9
27.5°	4742.8	4764.2	4816.0	4886.3	4908.7
30°	4467.9	4466.9	4449.6	4449.6	4478.1
32.5°	4086.1	4037.3	3954.8	3905.0	3900.9
35°	3483.6	3461.2	3360.4	3331.8	3352.2
37.5°	2748.5	2763.8	2789.2	2829.9	2866.6
40°	2041.1	2079.7	2223.2	2351.5	2407.5
42.5°	1522.9	1572.8	1719.3	1859.8	1928.0
45°	1194.1	1235.8	1327.4	1430.2	1494.3
47.5°	987.4	1008.8	1057.7	1126.9	1159.4
50°	835.8	845.9	868.4	903.9	929.4
52.5°	709.5	705.5	717.6	741.0	750.3
55°	590.4	588.4	588.4	599.6	609.8
57.5°	489.6	486.6	480.5	485.6	488.6
60°	401.1	398.0	393.0	392.0	390.9
62.5°	322.7	317.6	307.5	305.4	305.4
65°	228.0	227.0	218.8	215.8	212.7
67.5°	141.5	137.5	130.3	124.2	123.2
70°	84.5	83.5	77.4	73.4	73.4
72.5°	50.8	48.8	45.8	43.8	42.8
75°	30.5	29.5	27.4	25.4	25.4
77.5°	18.3	17.3	16.3	15.3	15.3
80°	10.1	10.1	9.1	9.1	9.1
82.5°	6.1	6.1	5.1	5.1	5.1
85°	3.0	3.0	3.0	2.0	2.0
87.5°	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)