

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: P247281

Luminaire Tested: **LSR8B120D010 EC8B120927 8LBW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247281
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: LSR8B120D010 EC8B120927 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: 9519.7 lumens
Efficiency: N/A
Efficacy: 80.5 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

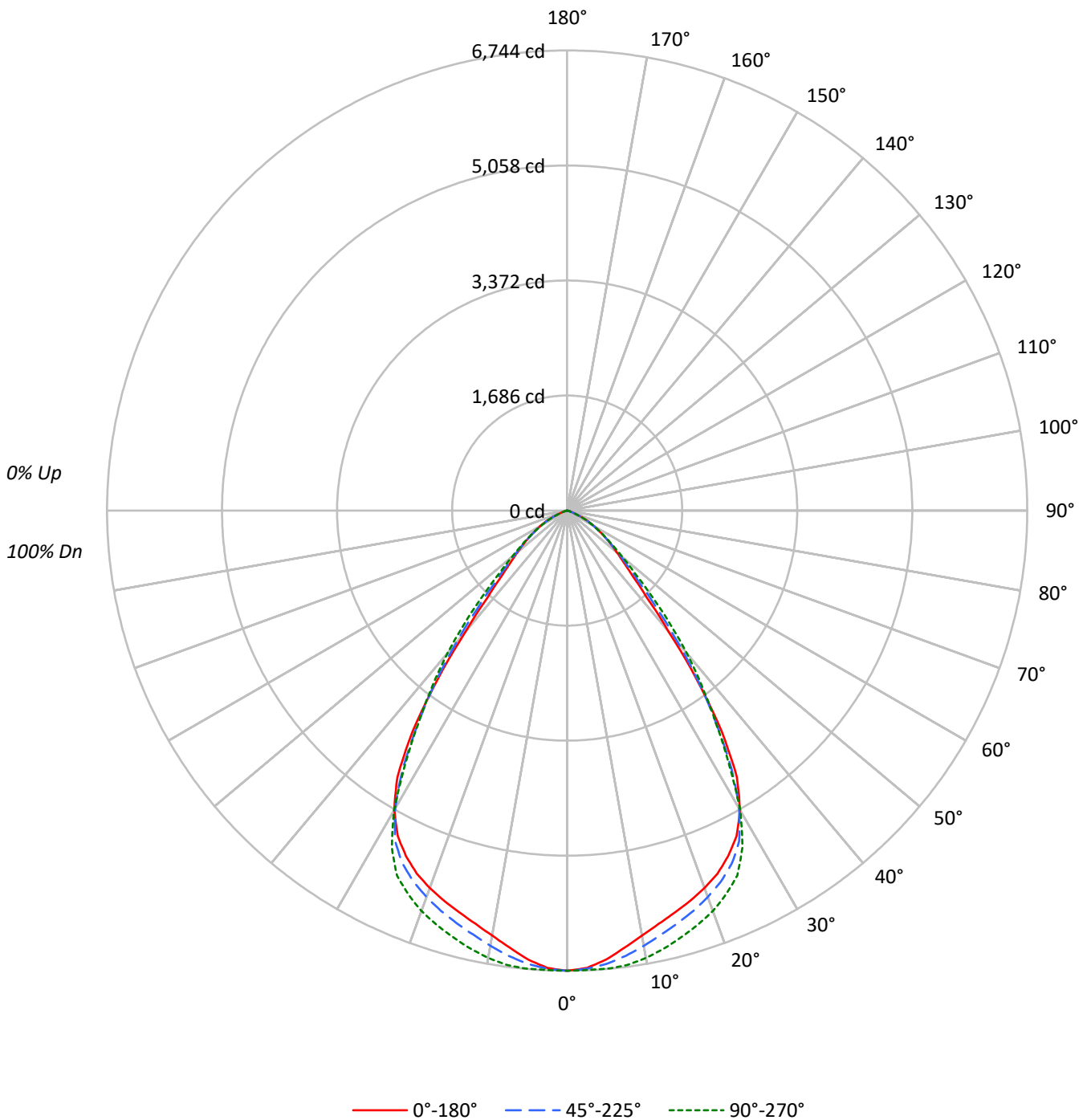
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91	91	91	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83	83	83	83			
3	99	91	85	81	97	90	84	80	87	83	79	85	81	78	82	79	76	75	75	75	75			
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68	68	68	68			
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61	61	61	61			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56	56	56	56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51	51	51	51			
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47	47	47	47			
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44	44	44	44			
10	65	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40	40	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°	630.6	6.6
10°-20°	1770.9	18.6
20°-30°	2608.1	27.4
30°-40°	2372.1	24.9
40°-50°	1228.0	12.9
50°-60°	615.2	6.5
60°-70°	250.5	2.6
70°-80°	40.0	0.4
80°-90°	4.3	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°	5009.6	52.6
0°-40°	7381.8	77.5
0°-60°	9224.9	96.9
0°-90°	9519.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9519.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6744	6744	6744	6744	6744	
5°	6603	6620	6666	6717	6740	621
15°	6097	6139	6259	6403	6472	1723
25°	5586	5624	5710	5840	5901	2558
35°	3949	3923	3809	3777	3800	2381
45°	1354	1401	1505	1621	1694	1115
55°	669	667	667	680	691	608
65°	258	257	248	245	241	261
75°	35	33	31	29	29	44
85°	4	4	4	2	2	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6743.6	6743.6	6743.6	6743.6	6743.6
2.5°	6707.8	6711.3	6720.5	6730.9	6739.0
5°	6602.8	6620.1	6666.3	6717.0	6740.1
7.5°	6459.8	6497.8	6582.0	6676.6	6718.2
10°	6323.5	6367.4	6477.1	6604.0	6657.1
12.5°	6203.6	6246.2	6365.1	6507.0	6572.8
15°	6097.4	6138.9	6258.9	6403.2	6472.5
17.5°	5997.0	6035.1	6149.4	6293.6	6363.9
20°	5885.1	5918.5	6027.0	6166.6	6245.1
22.5°	5758.1	5783.5	5885.1	6017.7	6087.0
25°	5586.2	5624.3	5709.7	5840.1	5901.2
27.5°	5376.2	5400.4	5459.3	5538.9	5564.2
30°	5064.6	5063.5	5043.8	5043.8	5076.1
32.5°	4631.8	4576.5	4483.0	4426.5	4421.9
35°	3948.8	3923.3	3809.1	3776.8	3799.9
37.5°	3115.6	3132.9	3161.8	3207.9	3249.5
40°	2313.7	2357.4	2520.2	2665.6	2729.0
42.5°	1726.3	1782.8	1949.0	2108.2	2185.5
45°	1353.6	1400.9	1504.7	1621.2	1694.0
47.5°	1119.3	1143.6	1198.9	1277.4	1314.3
50°	947.4	959.0	984.3	1024.6	1053.6
52.5°	804.3	799.6	813.5	840.0	850.5
55°	669.3	667.0	667.0	679.6	691.2
57.5°	555.1	551.6	544.6	550.5	553.8
60°	454.6	451.2	445.4	444.3	443.1
62.5°	365.8	360.0	348.5	346.2	346.2
65°	258.5	257.3	248.1	244.7	241.2
67.5°	160.4	155.8	147.7	140.7	139.6
70°	95.7	94.6	87.8	83.1	83.1
72.5°	57.7	55.4	52.0	49.6	48.5
75°	34.6	33.4	31.2	28.8	28.8
77.5°	20.8	19.6	18.4	17.3	17.3
80°	11.6	11.6	10.4	10.4	10.4
82.5°	7.0	7.0	5.7	5.7	5.7
85°	3.5	3.5	3.5	2.4	2.4
87.5°	1.1	1.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)