

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: P247285

Luminaire Tested: **LSR8B120D010 EC8B120930 8LBW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247285
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 EC8B120930 8LBW0WMH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10036.4 lumens
Efficiency: N/A
Efficacy: 84.8 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

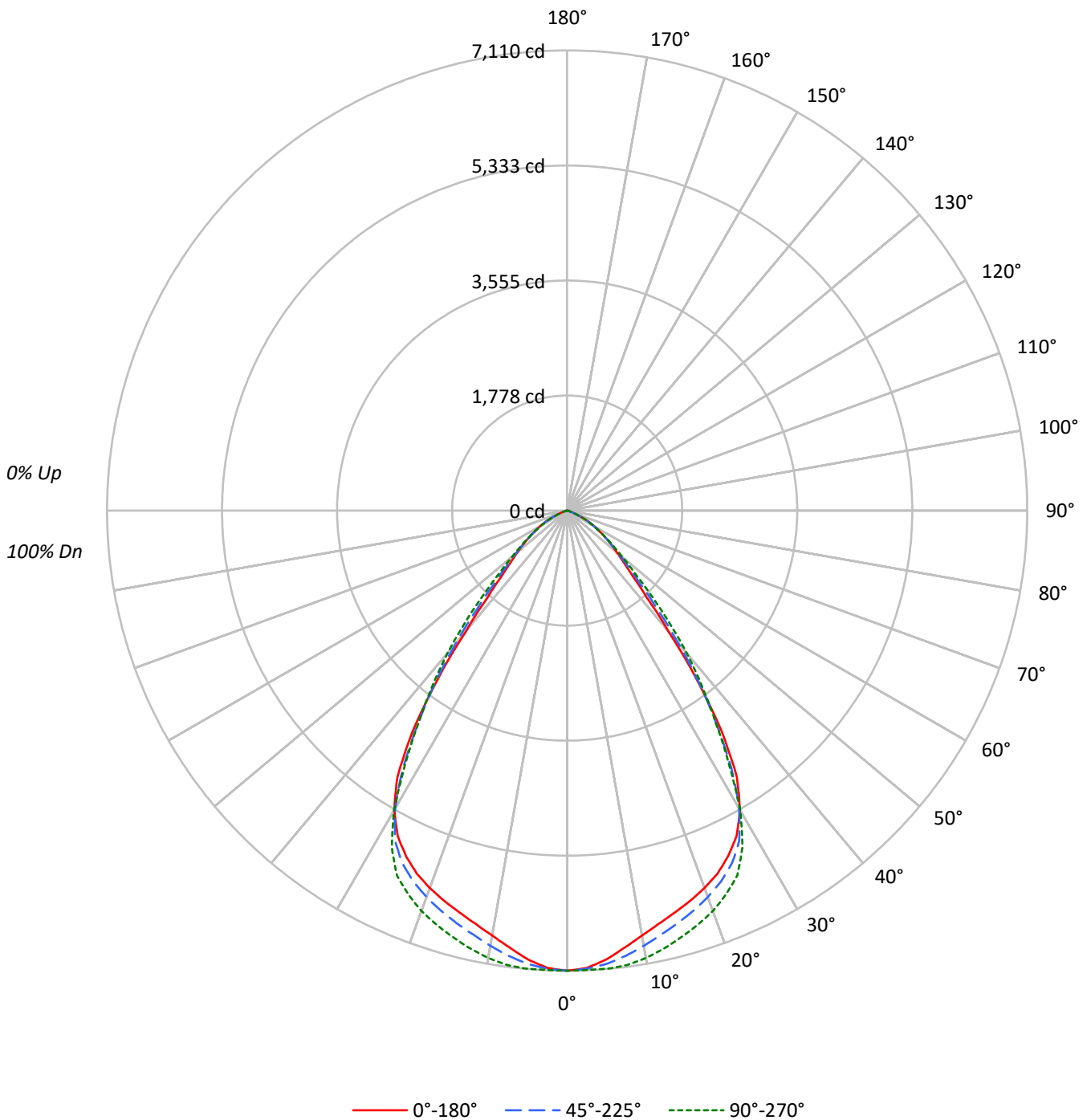
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10			
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83		
3	99	91	85	81	97	90	84	80	87	83	79	85	81	78	82	79	76	75		
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68		
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61		
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56		
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51		
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47		
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44		
10	65	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	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°	664.9	6.6
10°-20°	1867.0	18.6
20°-30°	2749.6	27.4
30°-40°	2500.9	24.9
40°-50°	1294.6	12.9
50°-60°	648.6	6.5
60°-70°	264.1	2.6
70°-80°	42.1	0.4
80°-90°	4.5	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°	5281.4	52.6
0°-40°	7782.3	77.5
0°-60°	9725.5	96.9
0°-90°	10036.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10036.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7110	7110	7110	7110	7110	
5°	6961	6979	7028	7082	7106	655
15°	6428	6472	6598	6751	6824	1817
25°	5889	5929	6019	6157	6221	2696
35°	4163	4136	4016	3982	4006	2510
45°	1427	1477	1586	1709	1786	1175
55°	706	703	703	716	729	641
65°	272	271	262	258	254	275
75°	36	35	33	30	30	46
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°	7109.5	7109.5	7109.5	7109.5	7109.5
2.5°	7071.8	7075.4	7085.2	7096.2	7104.7
5°	6961.1	6979.3	7028.0	7081.6	7105.9
7.5°	6810.2	6850.4	6939.2	7039.0	7082.7
10°	6666.7	6712.9	6828.5	6962.3	7018.2
12.5°	6540.1	6585.2	6710.5	6860.1	6929.5
15°	6428.3	6472.1	6598.5	6750.7	6823.6
17.5°	6322.4	6362.6	6483.0	6635.1	6709.3
20°	6204.4	6239.7	6354.1	6501.2	6584.0
22.5°	6070.6	6097.3	6204.4	6344.3	6417.3
25°	5889.3	5929.4	6019.4	6157.0	6221.4
27.5°	5667.9	5693.4	5755.4	5839.4	5866.2
30°	5339.4	5338.2	5317.6	5317.6	5351.7
32.5°	4883.2	4824.8	4726.2	4666.7	4661.8
35°	4163.1	4136.3	4015.9	3981.8	4006.1
37.5°	3284.6	3302.9	3333.3	3382.1	3425.8
40°	2439.2	2485.4	2657.0	2810.2	2877.2
42.5°	1819.9	1879.6	2054.8	2222.6	2304.1
45°	1427.0	1476.9	1586.3	1709.3	1785.9
47.5°	1180.1	1205.6	1264.0	1346.8	1385.7
50°	998.8	1010.9	1037.7	1080.3	1110.7
52.5°	847.9	843.1	857.7	885.7	896.6
55°	705.6	703.2	703.2	716.5	728.8
57.5°	585.2	581.5	574.2	580.3	583.9
60°	479.3	475.6	469.6	468.4	467.1
62.5°	385.6	379.6	367.4	365.0	365.0
65°	272.5	271.3	261.5	257.9	254.2
67.5°	169.0	164.2	155.7	148.4	147.2
70°	101.0	99.8	92.5	87.6	87.6
72.5°	60.9	58.4	54.7	52.4	51.1
75°	36.5	35.3	32.8	30.4	30.4
77.5°	21.9	20.6	19.5	18.3	18.3
80°	12.2	12.2	11.0	11.0	11.0
82.5°	7.3	7.3	6.1	6.1	6.1
85°	3.7	3.7	3.7	2.5	2.5
87.5°	1.2	1.2	1.2	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)