

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: P247521

Luminaire Tested: **LSR8B120D010 EC8B120927 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247521
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-61)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120927 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8759.3 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

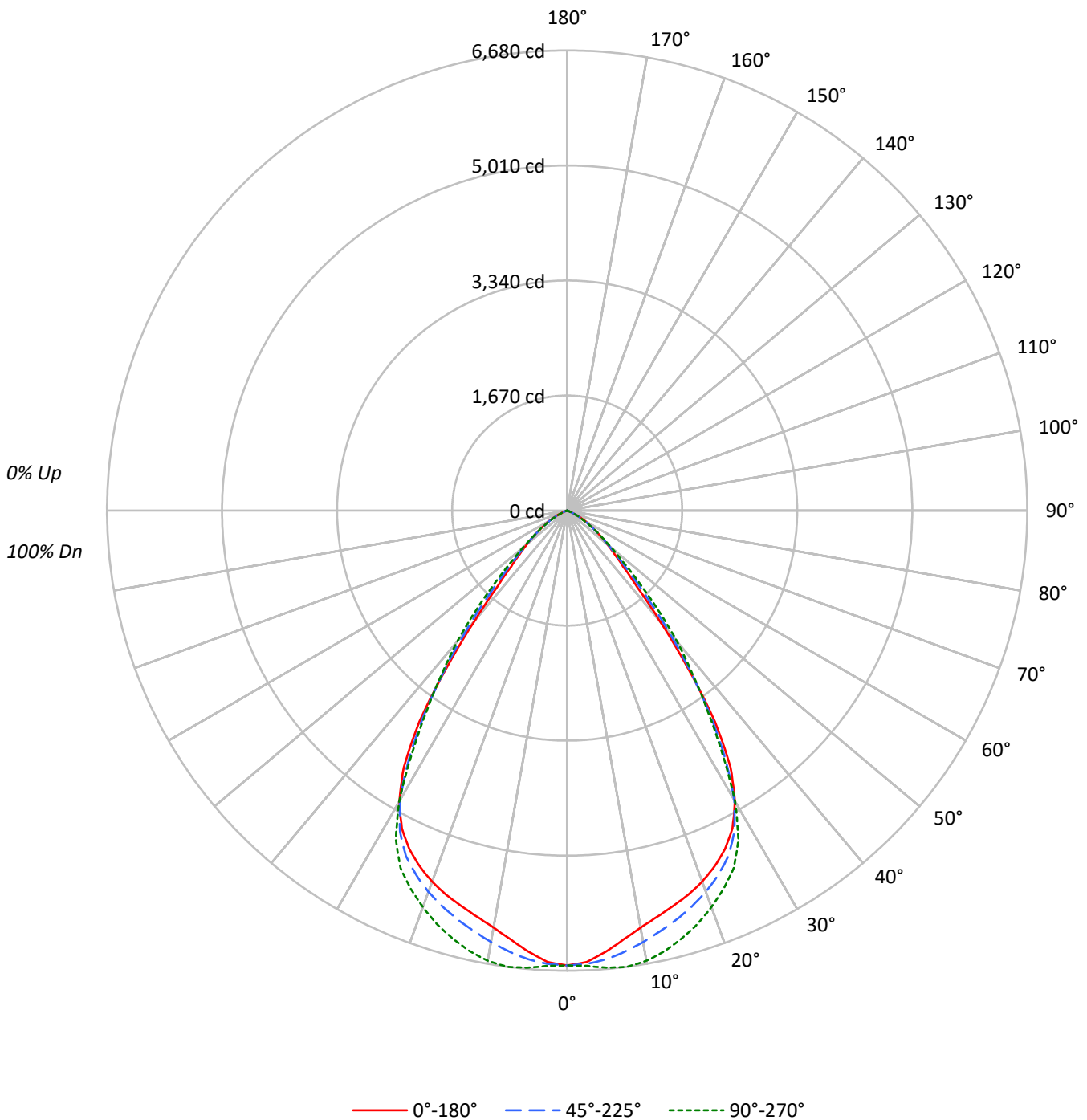
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247521

CATALOG NUMBER: LSR8B120D010 EC8B120927 8LBW0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P247521

CATALOG NUMBER: LSR8B120D010 EC8B120927 8LBW0GPH

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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92	92	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84	84	84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76	76	76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69	69	69
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63	63	63
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58	58	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53	53	53
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49	49	49
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47	46	46	46
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42	42	42

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°			



TEST NUMBER: P247521

CATALOG NUMBER: LSR8B120D010 EC8B120927 8LBW0GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	619.1	7.1
10°-20°	1738.7	19.8
20°-30°	2527.0	28.8
30°-40°	2234.8	25.5
40°-50°	1063.1	12.1
50°-60°	442.8	5.1
60°-70°	123.7	1.4
70°-80°	9.4	0.1
80°-90°	0.7	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°	4884.9	55.8
0°-40°	7119.6	81.3
0°-60°	8625.5	98.5
0°-90°	8759.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8759.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6603	6603	6603	6603	6603	
5°	6429	6461	6538	6624	6662	605
15°	5942	5996	6145	6332	6430	1678
25°	5422	5446	5537	5660	5723	2478
35°	3743	3690	3617	3562	3562	2240
45°	1148	1188	1292	1412	1468	956
55°	492	486	474	474	485	447
65°	123	121	114	110	108	135
75°	8	7	6	6	6	11
85°	1	1	0	0	0	1
90°	0	0	0	0	0	



TEST NUMBER: P247521

CATALOG NUMBER: LSR8B120D010 EC8B120927 8LBW0GPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6603.4	6603.4	6603.4	6603.4	6603.4
2.5°	6559.5	6565.3	6587.2	6608.0	6617.2
5°	6429.2	6461.4	6537.6	6624.1	6662.2
7.5°	6280.3	6328.8	6456.8	6609.2	6679.5
10°	6145.3	6206.4	6360.0	6548.0	6636.8
12.5°	6039.1	6095.7	6252.6	6448.7	6549.2
15°	5942.2	5996.5	6145.3	6332.2	6430.3
17.5°	5845.3	5897.2	6025.3	6199.5	6294.2
20°	5732.2	5773.7	5889.2	6042.6	6125.6
22.5°	5591.5	5629.5	5726.5	5862.6	5937.6
25°	5421.8	5446.1	5537.2	5659.5	5723.0
27.5°	5196.8	5202.6	5258.0	5337.6	5384.9
30°	4870.3	4866.9	4851.9	4848.4	4875.0
32.5°	4413.4	4362.6	4274.9	4233.4	4201.1
35°	3743.0	3690.0	3617.2	3561.9	3561.9
37.5°	2861.5	2907.7	2936.5	2971.1	2988.5
40°	2078.1	2146.2	2290.4	2440.4	2480.7
42.5°	1510.3	1573.9	1729.6	1896.9	1945.4
45°	1148.1	1188.4	1292.3	1412.3	1467.7
47.5°	927.7	939.3	991.1	1062.7	1089.2
50°	760.4	763.9	780.0	816.9	837.7
52.5°	615.0	612.7	617.3	627.6	636.9
55°	491.5	485.8	474.2	474.2	484.6
57.5°	379.6	371.6	358.9	353.0	349.7
60°	290.8	282.7	268.9	259.7	258.4
62.5°	208.8	201.9	188.1	180.0	177.6
65°	123.4	121.2	114.2	109.6	108.4
67.5°	57.7	55.4	49.6	47.4	46.1
70°	27.7	26.6	24.2	23.1	21.9
72.5°	13.8	13.8	11.6	11.6	11.6
75°	8.1	7.0	5.7	5.7	5.7
77.5°	4.6	3.5	3.5	3.5	3.5
80°	2.4	2.4	2.4	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)