

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: P247665

Luminaire Tested: **LSR8B120D010 EC8B120927 8LBS0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247665
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120927 8LBS0B
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8973.0 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

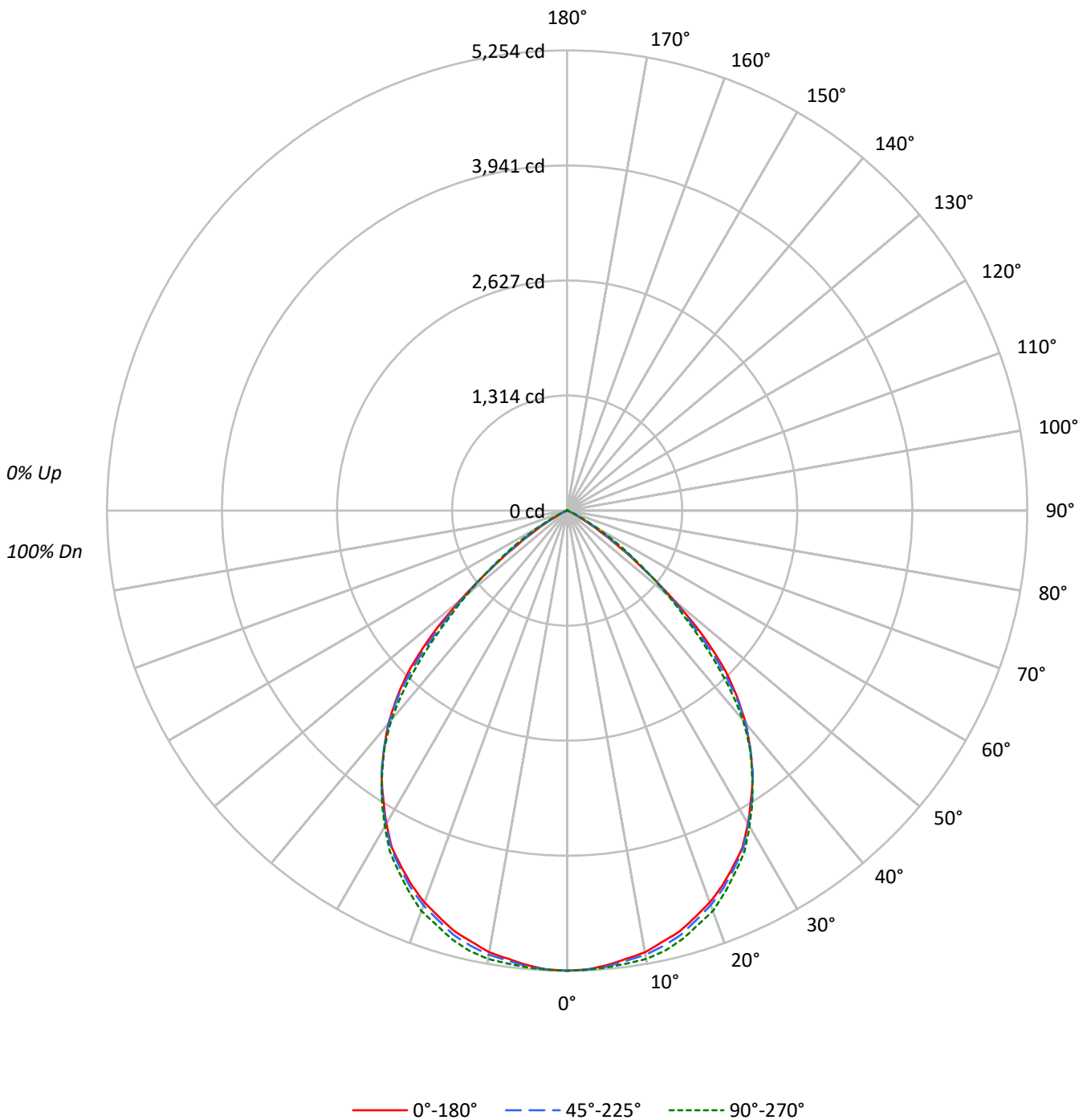
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247665

CATALOG NUMBER: LSR8B120D010 EC8B120927 8LBS0B

Luminous Intensity Polar Plot





TEST NUMBER: P247665

CATALOG NUMBER: LSR8B120D010 EC8B120927 8LBS0B

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						
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91						
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82						
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73						
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65						
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59						
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53						
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48						
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44						
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40						
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37						

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: P247665

CATALOG NUMBER: LSR8B120D010 EC8B120927 8LBS0B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.2	5.5
10°-20°	1411.9	15.7
20°-30°	2074.2	23.1
30°-40°	2296.4	25.6
40°-50°	1830.1	20.4
50°-60°	749.9	8.4
60°-70°	110.4	1.2
70°-80°	1.6	0.0
80°-90°	2.2	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°	3982.3	44.4
0°-40°	6278.7	70.0
0°-60°	8858.8	98.7
0°-90°	8973.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8973.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5254	5254	5254	5254	5254	
5°	5210	5219	5224	5232	5236	494
15°	4972	4976	5015	5062	5069	1399
25°	4484	4480	4508	4535	4549	2062
35°	3692	3687	3697	3693	3682	2294
45°	2518	2495	2415	2325	2304	1890
55°	741	766	806	852	853	713
65°	70	74	86	95	92	93
75°	0	0	0	0	0	3
85°	0	0	0	5	0	4
90°	0	0	0	0	0	



TEST NUMBER: P247665

CATALOG NUMBER: LSR8B120D010 EC8B120927 8LBS0B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5253.9	5253.9	5253.9	5253.9	5253.9
2.5°	5244.6	5245.8	5245.8	5240.0	5246.9
5°	5210.0	5219.2	5223.8	5231.9	5236.5
7.5°	5161.5	5159.2	5183.4	5212.3	5215.7
10°	5121.1	5116.5	5148.9	5186.9	5197.3
12.5°	5041.6	5047.3	5088.8	5128.1	5148.9
15°	4972.3	4975.8	5015.0	5062.3	5069.2
17.5°	4865.0	4875.4	4901.8	4951.6	4960.8
20°	4760.0	4764.6	4794.6	4835.0	4865.0
22.5°	4631.8	4640.0	4663.0	4698.8	4713.9
25°	4484.1	4479.5	4508.4	4535.0	4548.8
27.5°	4334.2	4326.1	4348.0	4373.4	4386.2
30°	4126.5	4124.1	4136.8	4153.0	4163.4
32.5°	3908.4	3914.1	3926.8	3931.4	3934.9
35°	3691.5	3686.8	3697.2	3692.6	3682.2
37.5°	3434.1	3437.6	3437.6	3432.9	3428.3
40°	3172.2	3175.6	3168.7	3143.4	3124.8
42.5°	2865.3	2867.5	2831.7	2775.3	2737.1
45°	2517.9	2494.8	2415.2	2325.2	2304.5
47.5°	2080.6	2041.3	1958.2	1890.1	1865.9
50°	1591.3	1562.4	1534.7	1499.0	1492.1
52.5°	1115.9	1130.9	1141.2	1152.8	1149.3
55°	740.8	766.2	805.5	851.6	852.8
57.5°	445.4	474.3	523.9	574.6	598.8
60°	261.9	273.5	309.3	347.3	358.9
62.5°	142.0	145.4	161.5	199.6	193.8
65°	70.4	73.8	86.5	94.6	92.4
67.5°	34.6	38.0	40.4	52.0	42.8
70°	8.1	2.4	4.6	5.7	2.4
72.5°	0.0	0.0	2.4	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	2.4	0.0	0.0	0.0	4.6
80°	10.4	7.0	2.4	2.4	3.5
82.5°	3.5	1.1	3.5	1.1	0.0
85°	0.0	0.0	0.0	4.6	0.0
87.5°	5.7	1.1	1.1	3.5	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)