

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: P247617

Luminaire Tested: **LSR8B120D010 EC8B1209727 8LBW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-62)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B1209727 8LBW0B
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 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: 5672.0 lumens
Efficiency: N/A
Efficacy: 47.9 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

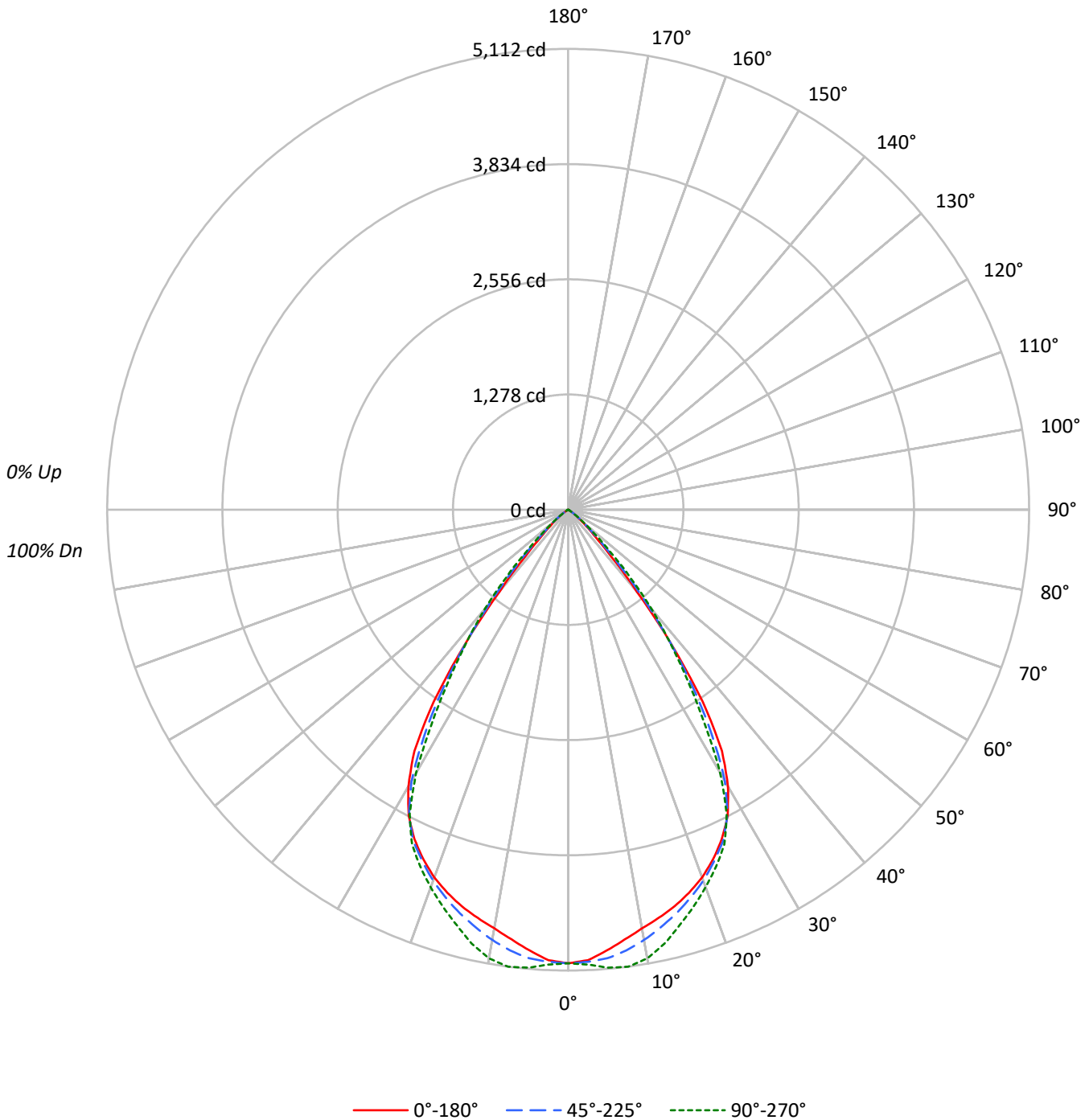
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93			
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86	86	86	86			
3	102	95	90	86	100	93	89	85	91	87	84	88	85	82	86	83	81	79	79	79	79			
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	73	73	73	73			
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68	68	68	68			
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64	63	63	63	63			
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	58	58	58			
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54	54	54	54			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50	50	50	50			
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47	47	47	47			

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°	472.9	8.3
10°-20°	1308.7	23.1
20°-30°	1844.0	32.5
30°-40°	1491.9	26.3
40°-50°	473.6	8.3
50°-60°	75.7	1.3
60°-70°	5.1	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	3625.6	63.9
0°-40°	5117.5	90.2
0°-60°	5666.9	99.9
0°-90°	5672.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5672.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5031	5031	5031	5031	5031	
5°	4909	4932	4995	5068	5100	462
15°	4555	4572	4636	4724	4772	1283
25°	4032	4039	4061	4083	4097	1841
35°	2598	2527	2421	2333	2300	1540
45°	422	455	543	620	658	393
55°	67	68	72	75	74	69
65°	2	3	3	3	3	5
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5031.0	5031.0	5031.0	5031.0	5031.0
2.5°	5002.2	5007.4	5019.7	5043.3	5050.4
5°	4908.9	4931.5	4995.1	5067.9	5099.7
7.5°	4808.4	4838.1	4931.5	5054.5	5112.0
10°	4716.1	4747.9	4847.4	4978.6	5053.5
12.5°	4638.1	4662.7	4743.8	4861.7	4931.5
15°	4555.0	4572.5	4636.1	4724.3	4772.5
17.5°	4455.5	4470.9	4513.0	4581.7	4618.6
20°	4340.7	4344.8	4380.7	4424.8	4456.6
22.5°	4198.1	4202.2	4222.7	4264.8	4286.3
25°	4031.9	4039.1	4060.7	4083.2	4096.6
27.5°	3827.8	3830.9	3820.7	3802.2	3806.3
30°	3544.7	3533.5	3476.0	3397.0	3373.5
32.5°	3173.4	3098.6	2974.5	2863.7	2818.6
35°	2598.0	2527.3	2420.6	2333.4	2299.6
37.5°	1866.7	1871.9	1864.7	1845.2	1849.3
40°	1180.6	1227.7	1339.5	1412.4	1434.9
42.5°	708.7	760.0	883.1	981.6	1013.4
45°	421.6	455.4	542.6	619.5	657.5
47.5°	270.8	287.2	330.3	375.4	396.9
50°	179.5	187.7	205.1	225.6	234.9
52.5°	114.9	118.0	126.2	133.3	140.5
55°	66.7	67.7	71.8	74.9	73.8
57.5°	34.9	34.9	34.9	34.9	34.9
60°	19.5	18.5	18.5	18.5	17.4
62.5°	9.2	9.2	9.2	8.2	8.2
65°	2.1	3.1	3.1	3.1	3.1
67.5°	0.0	0.0	0.0	0.0	1.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	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)