

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: P247473

Luminaire Tested: **LSR8B120D010 EC8B1209727 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247473
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B1209727 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9572.0 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

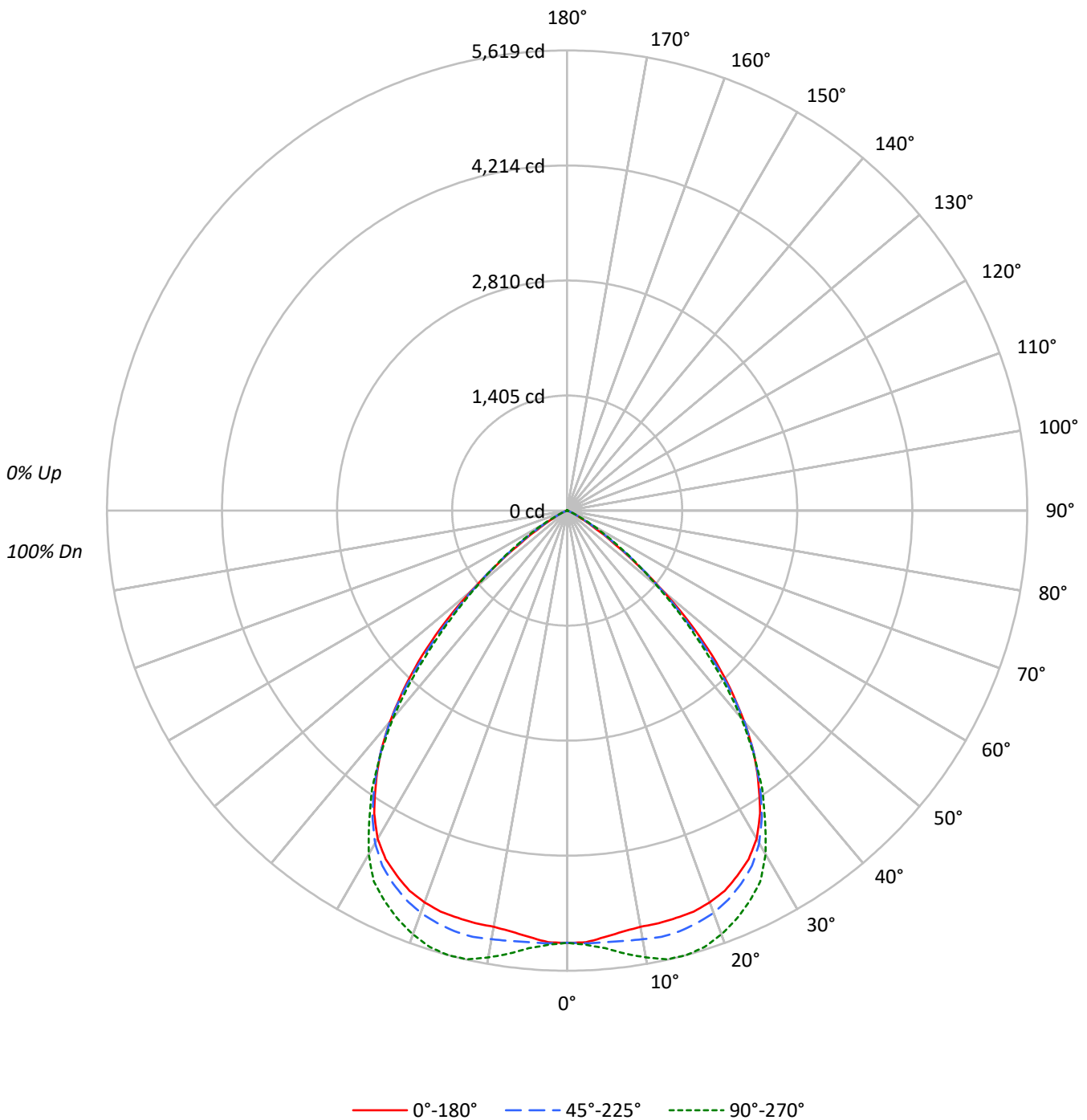
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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						
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91						
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82						
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73						
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66						
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59						
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54						
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49						
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44						
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40						
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	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°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.8	5.3
10°-20°	1510.3	15.8
20°-30°	2324.0	24.3
30°-40°	2545.4	26.6
40°-50°	1850.8	19.3
50°-60°	712.0	7.4
60°-70°	111.5	1.2
70°-80°	8.0	0.1
80°-90°	3.2	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°	4341.0	45.4
0°-40°	6886.5	71.9
0°-60°	9449.2	98.7
0°-90°	9572.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9572.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5277	5277	5277	5277	5277	
5°	5228	5255	5291	5341	5365	497
15°	5149	5189	5317	5514	5619	1457
25°	4918	4948	5027	5176	5265	2262
35°	4074	4074	4101	4126	4152	2530
45°	2504	2478	2410	2349	2317	1903
55°	692	711	752	776	798	676
65°	78	81	83	94	97	95
75°	6	13	10	13	13	8
85°	2	0	0	0	2	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5277.4	5277.4	5277.4	5277.4	5277.4
2.5°	5276.4	5284.6	5289.7	5301.0	5306.1
5°	5228.2	5254.8	5290.7	5341.0	5364.6
7.5°	5186.1	5223.0	5300.0	5408.7	5456.9
10°	5159.4	5199.4	5314.3	5462.0	5540.0
12.5°	5162.5	5206.6	5330.7	5508.2	5612.8
15°	5149.2	5189.2	5317.4	5514.3	5619.0
17.5°	5133.8	5166.6	5280.5	5473.3	5586.1
20°	5090.7	5118.4	5227.1	5401.5	5506.1
22.5°	5026.1	5051.7	5142.0	5304.1	5400.5
25°	4918.4	4948.1	5027.1	5175.9	5265.1
27.5°	4798.4	4815.8	4888.6	5024.0	5109.2
30°	4628.1	4634.3	4688.6	4793.3	4844.5
32.5°	4385.0	4384.0	4425.0	4477.3	4496.8
35°	4074.2	4074.2	4100.9	4126.5	4152.2
37.5°	3751.1	3747.0	3750.1	3756.2	3734.7
40°	3367.5	3359.3	3363.4	3326.5	3302.9
42.5°	2946.9	2954.1	2913.1	2847.4	2822.8
45°	2503.8	2478.2	2410.5	2348.9	2317.1
47.5°	2033.0	1993.0	1928.4	1864.8	1859.7
50°	1528.3	1530.4	1488.3	1452.4	1438.1
52.5°	1060.6	1071.9	1093.4	1097.5	1102.7
55°	692.4	710.8	751.9	776.5	798.0
57.5°	423.6	457.5	492.4	538.5	542.6
60°	247.2	263.6	302.6	337.5	352.9
62.5°	139.5	154.9	163.1	183.6	188.7
65°	78.0	81.0	83.1	94.4	97.4
67.5°	47.2	49.2	51.3	50.3	52.3
70°	4.1	9.2	4.1	5.1	3.1
72.5°	17.4	11.3	12.3	9.2	6.2
75°	6.2	13.3	10.3	13.3	13.3
77.5°	4.1	3.1	5.1	6.2	5.1
80°	1.0	0.0	0.0	0.0	0.0
82.5°	9.2	8.2	5.1	8.2	3.1
85°	2.1	0.0	0.0	0.0	2.1
87.5°	6.2	3.1	3.1	7.2	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)