

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: P247569

Luminaire Tested: **LSR8B120D010 EC8B120927 8LBS0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247569
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-86)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120927 8LBS0GPH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9644.6 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.23
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

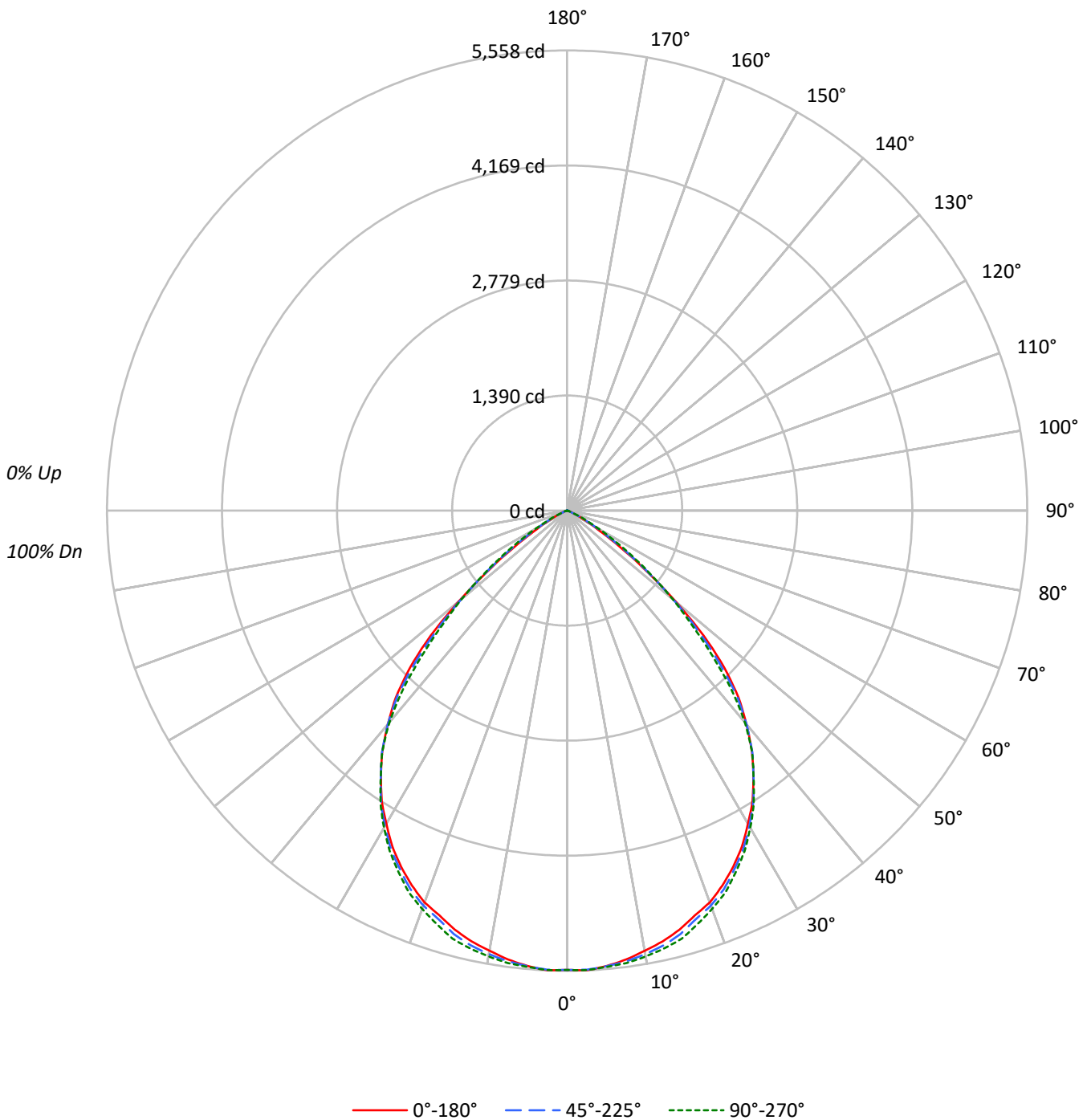
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100		
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91	91	91	91	91		
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81	81	81	81	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73	73	73	73	73		
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65	65	65	65	65		
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58	58		
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53	53	53	53	53		
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48	48	48	48	48		
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43	43	43	43	43		
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39	39	39	39	39		
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36	36	36	36	36		

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°	524.8	5.4
10°-20°	1490.5	15.5
20°-30°	2198.1	22.8
30°-40°	2446.6	25.4
40°-50°	1969.0	20.4
50°-60°	837.3	8.7
60°-70°	156.9	1.6
70°-80°	19.0	0.2
80°-90°	2.4	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°	4213.4	43.7
0°-40°	6660.0	69.1
0°-60°	9466.3	98.2
0°-90°	9644.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9644.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5548	5548	5548	5548	5548	
5°	5521	5522	5523	5532	5531	523
15°	5240	5269	5294	5335	5352	1477
25°	4745	4762	4780	4808	4819	2181
35°	3920	3921	3924	3925	3925	2441
45°	2690	2668	2595	2517	2480	2023
55°	831	849	900	936	959	791
65°	104	115	130	140	156	135
75°	10	13	20	18	17	17
85°	0	0	0	0	0	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5548.4	5548.4	5548.4	5548.4	5548.4
2.5°	5557.6	5561.0	5549.5	5551.8	5555.2
5°	5520.6	5521.8	5523.0	5532.2	5531.1
7.5°	5468.7	5476.8	5490.7	5508.0	5512.6
10°	5398.3	5419.1	5439.8	5460.6	5467.6
12.5°	5329.1	5341.8	5378.7	5399.4	5416.8
15°	5240.2	5269.0	5294.5	5334.9	5352.2
17.5°	5127.2	5147.9	5172.2	5212.6	5236.8
20°	5036.0	5041.8	5076.3	5112.1	5120.2
22.5°	4901.0	4913.7	4949.4	4973.6	4994.4
25°	4745.1	4762.5	4779.8	4807.5	4819.0
27.5°	4574.4	4584.8	4609.0	4628.6	4639.0
30°	4367.8	4390.9	4401.3	4410.6	4424.4
32.5°	4167.0	4174.0	4183.2	4188.9	4195.9
35°	3920.1	3921.2	3923.6	3924.7	3924.7
37.5°	3667.4	3675.5	3673.1	3666.2	3669.6
40°	3368.5	3382.3	3374.2	3353.5	3339.7
42.5°	3067.3	3060.3	3032.7	2970.3	2941.5
45°	2690.0	2668.0	2595.3	2516.8	2480.0
47.5°	2237.6	2189.1	2127.9	2066.7	2042.6
50°	1714.8	1707.9	1680.2	1656.0	1658.2
52.5°	1229.0	1246.3	1252.1	1275.2	1286.7
55°	830.8	849.4	900.1	935.9	959.0
57.5°	505.5	541.2	595.5	654.3	684.3
60°	319.6	340.4	390.0	428.2	442.0
62.5°	199.7	200.8	225.0	255.0	267.8
65°	103.8	115.4	130.4	139.6	155.8
67.5°	64.6	64.6	63.4	77.3	86.5
70°	42.8	36.9	38.1	46.1	49.6
72.5°	15.0	25.4	23.1	23.1	16.2
75°	10.4	12.7	19.6	18.4	17.3
77.5°	13.8	12.7	9.2	8.1	16.2
80°	5.7	4.6	1.1	7.0	7.0
82.5°	5.7	2.4	7.0	9.2	5.7
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	1.1	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)