

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 EC8B120927 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 EC8B120927 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: 10768.5 lumens
Efficiency: N/A
Efficacy: 91.0 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

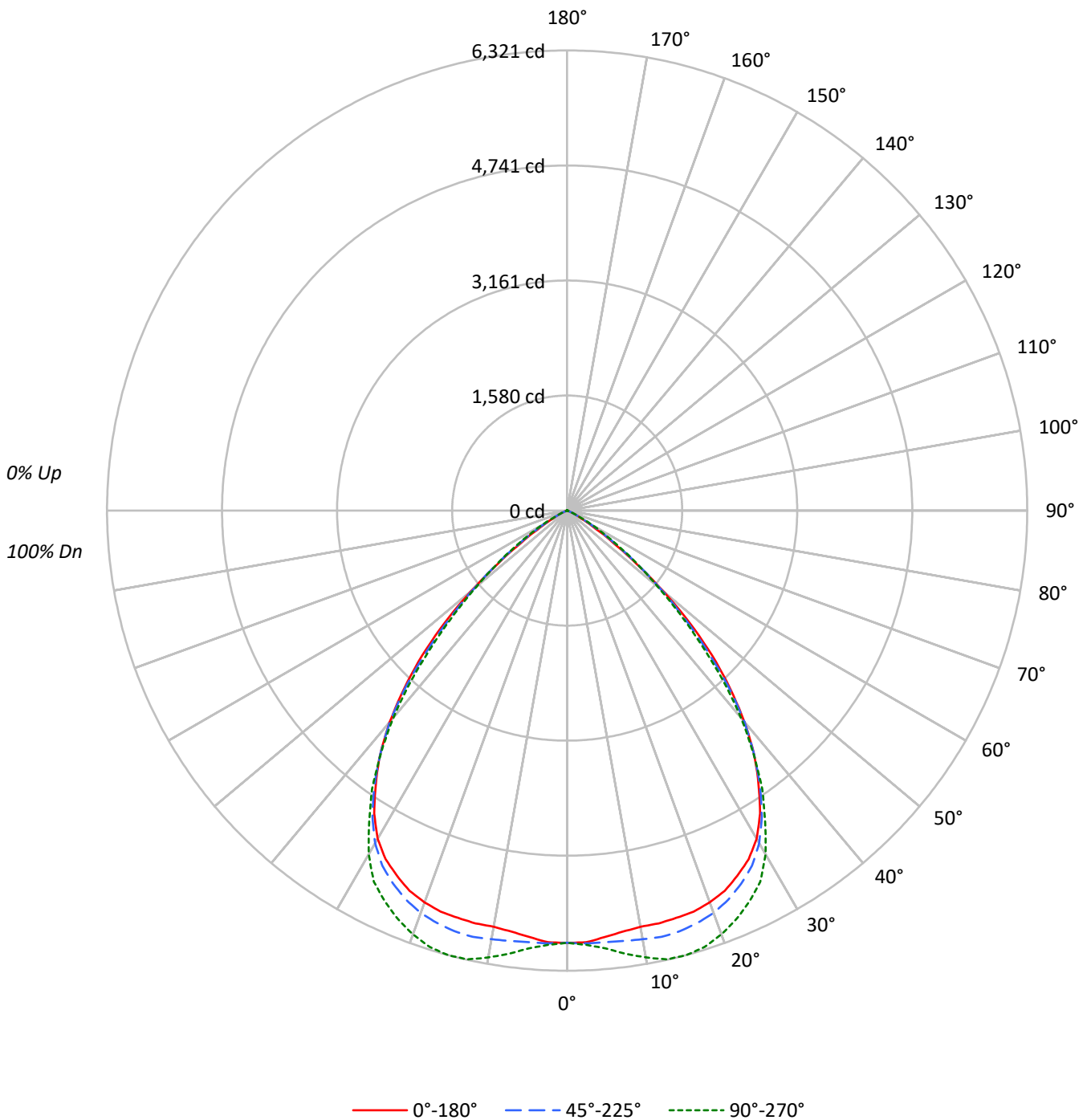
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	570.1	5.3
10°-20°	1699.0	15.8
20°-30°	2614.5	24.3
30°-40°	2863.6	26.6
40°-50°	2082.1	19.3
50°-60°	801.0	7.4
60°-70°	125.5	1.2
70°-80°	9.0	0.1
80°-90°	3.6	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°	4883.7	45.4
0°-40°	7747.3	71.9
0°-60°	10630.4	98.7
0°-90°	10768.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10768.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5937	5937	5937	5937	5937	
5°	5882	5912	5952	6009	6035	559
15°	5793	5838	5982	6204	6321	1639
25°	5533	5567	5656	5823	5923	2545
35°	4584	4584	4614	4642	4671	2846
45°	2817	2788	2712	2642	2607	2141
55°	779	800	846	874	898	761
65°	88	91	94	106	110	107
75°	7	15	12	15	15	9
85°	2	0	0	0	2	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5937.1	5937.1	5937.1	5937.1	5937.1
2.5°	5936.0	5945.2	5950.9	5963.6	5969.4
5°	5881.7	5911.7	5952.0	6008.6	6035.2
7.5°	5834.4	5875.9	5962.5	6084.8	6139.0
10°	5804.3	5849.3	5978.6	6144.8	6232.5
12.5°	5807.8	5857.4	5997.0	6196.7	6314.4
15°	5792.8	5837.8	5982.1	6203.6	6321.4
17.5°	5775.5	5812.4	5940.6	6157.5	6284.4
20°	5727.0	5758.2	5880.5	6076.7	6194.4
22.5°	5654.4	5683.2	5784.8	5967.1	6075.6
25°	5533.2	5566.6	5655.5	5822.9	5923.2
27.5°	5398.2	5417.8	5499.7	5652.0	5747.8
30°	5206.6	5213.6	5274.7	5392.5	5450.1
32.5°	4933.1	4932.0	4978.1	5037.0	5058.9
35°	4583.5	4583.5	4613.5	4642.3	4671.2
37.5°	4220.0	4215.4	4218.9	4225.7	4201.5
40°	3788.4	3779.2	3783.8	3742.3	3715.8
42.5°	3315.3	3323.4	3277.2	3203.3	3175.6
45°	2816.8	2788.0	2711.8	2642.5	2606.7
47.5°	2287.1	2242.1	2169.5	2097.9	2092.2
50°	1719.3	1721.7	1674.3	1634.0	1617.9
52.5°	1193.2	1205.9	1230.1	1234.7	1240.5
55°	778.9	799.6	845.9	873.6	897.8
57.5°	476.6	514.7	553.9	605.8	610.4
60°	278.1	296.6	340.4	379.7	397.0
62.5°	156.9	174.3	183.5	206.6	212.3
65°	87.8	91.1	93.5	106.2	109.6
67.5°	53.1	55.4	57.7	56.6	58.8
70°	4.6	10.4	4.6	5.7	3.5
72.5°	19.6	12.7	13.8	10.4	7.0
75°	7.0	15.0	11.6	15.0	15.0
77.5°	4.6	3.5	5.7	7.0	5.7
80°	1.1	0.0	0.0	0.0	0.0
82.5°	10.4	9.2	5.7	9.2	3.5
85°	2.4	0.0	0.0	0.0	2.4
87.5°	7.0	3.5	3.5	8.1	2.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)