

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: P247137

Luminaire Tested: **LSR8B120D010 EC8B120927 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247137
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-82)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120927 8LBS0LI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10849.5 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.31 / 1.25
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

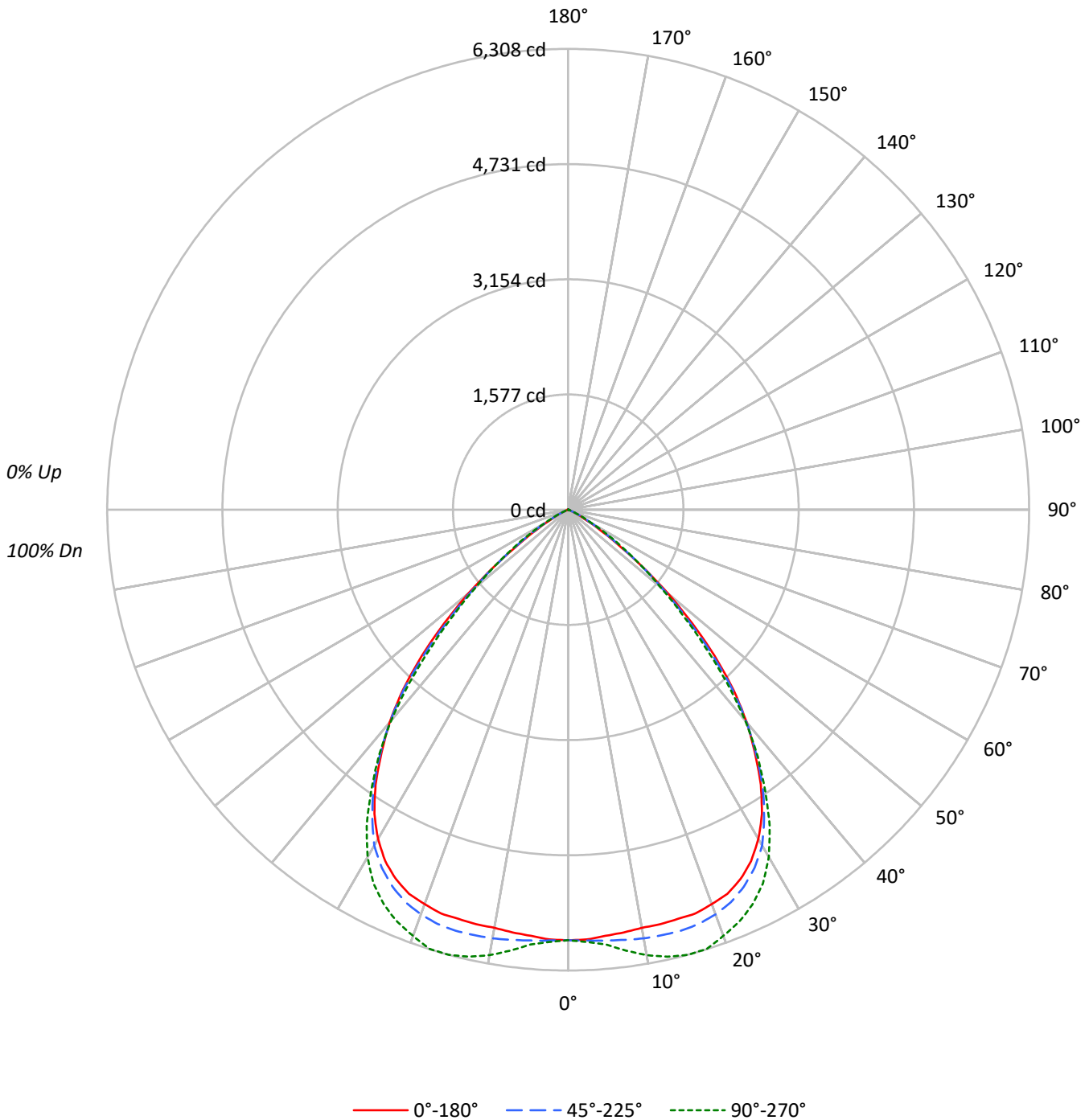
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91	91	91	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82	82	82	82
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73	73	73	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66	66	66	66
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59	59	59	59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53	53	53	53
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48	48	48	48
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44	44	44	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40	40	40	40
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37	37	37	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°	567.1	5.2
10°-20°	1697.8	15.6
20°-30°	2627.2	24.2
30°-40°	2877.6	26.5
40°-50°	2105.2	19.4
50°-60°	826.0	7.6
60°-70°	133.7	1.2
70°-80°	12.3	0.1
80°-90°	2.5	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°	4892.1	45.1
0°-40°	7769.7	71.6
0°-60°	10701.0	98.6
0°-90°	10849.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10849.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5893	5893	5893	5893	5893	
5°	5855	5869	5920	5963	5975	558
15°	5799	5837	5966	6188	6308	1642
25°	5578	5596	5691	5863	5964	2558
35°	4595	4603	4642	4686	4698	2845
45°	2836	2832	2756	2671	2634	2160
55°	814	831	866	897	927	800
65°	97	95	103	113	121	118
75°	7	10	13	9	12	12
85°	0	0	0	0	0	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5893.3	5893.3	5893.3	5893.3	5893.3
2.5°	5887.6	5891.1	5902.5	5914.1	5921.0
5°	5855.3	5869.1	5919.9	5962.6	5975.2
7.5°	5835.6	5858.7	5938.3	6045.6	6087.2
10°	5811.4	5844.8	5958.0	6110.3	6191.1
12.5°	5812.5	5844.8	5964.9	6163.3	6267.3
15°	5798.7	5836.8	5966.0	6187.6	6307.7
17.5°	5795.2	5813.7	5945.3	6170.3	6303.0
20°	5745.6	5771.0	5894.4	6094.1	6208.3
22.5°	5691.4	5703.0	5816.0	6012.2	6109.1
25°	5578.3	5595.6	5691.4	5863.3	5963.7
27.5°	5422.5	5426.0	5523.0	5682.2	5769.9
30°	5204.4	5221.7	5308.3	5426.0	5488.3
32.5°	4934.4	4932.1	4988.6	5091.3	5131.7
35°	4595.1	4603.2	4642.4	4686.3	4697.8
37.5°	4197.0	4207.4	4233.9	4248.9	4259.4
40°	3800.0	3800.0	3796.5	3780.4	3767.7
42.5°	3347.7	3332.7	3315.4	3243.8	3212.7
45°	2836.5	2831.8	2755.7	2671.4	2634.5
47.5°	2298.7	2273.3	2193.8	2125.6	2110.6
50°	1771.3	1744.8	1703.2	1669.8	1647.9
52.5°	1262.5	1242.8	1260.1	1260.1	1257.9
55°	813.6	830.8	865.5	896.6	926.7
57.5°	515.8	538.9	592.0	632.4	642.7
60°	295.4	312.8	349.7	385.4	392.4
62.5°	185.7	187.0	211.2	232.0	244.7
65°	97.0	94.6	102.7	113.1	121.2
67.5°	40.4	40.4	48.5	47.4	60.0
70°	20.8	17.3	19.6	23.1	26.6
72.5°	15.0	11.6	16.2	20.8	9.2
75°	7.0	10.4	12.7	9.2	11.6
77.5°	9.2	9.2	7.0	11.6	2.4
80°	7.0	4.6	8.1	3.5	0.0
82.5°	1.1	2.4	1.1	1.1	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	8.1	3.5	5.7	4.6	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)