

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: P247141

Luminaire Tested: **LSR8B120D010 EC8B1209730 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247141
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 EC8B1209730 8LBSOLI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10203.0 lumens
Efficiency: N/A
Efficacy: 86.2 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

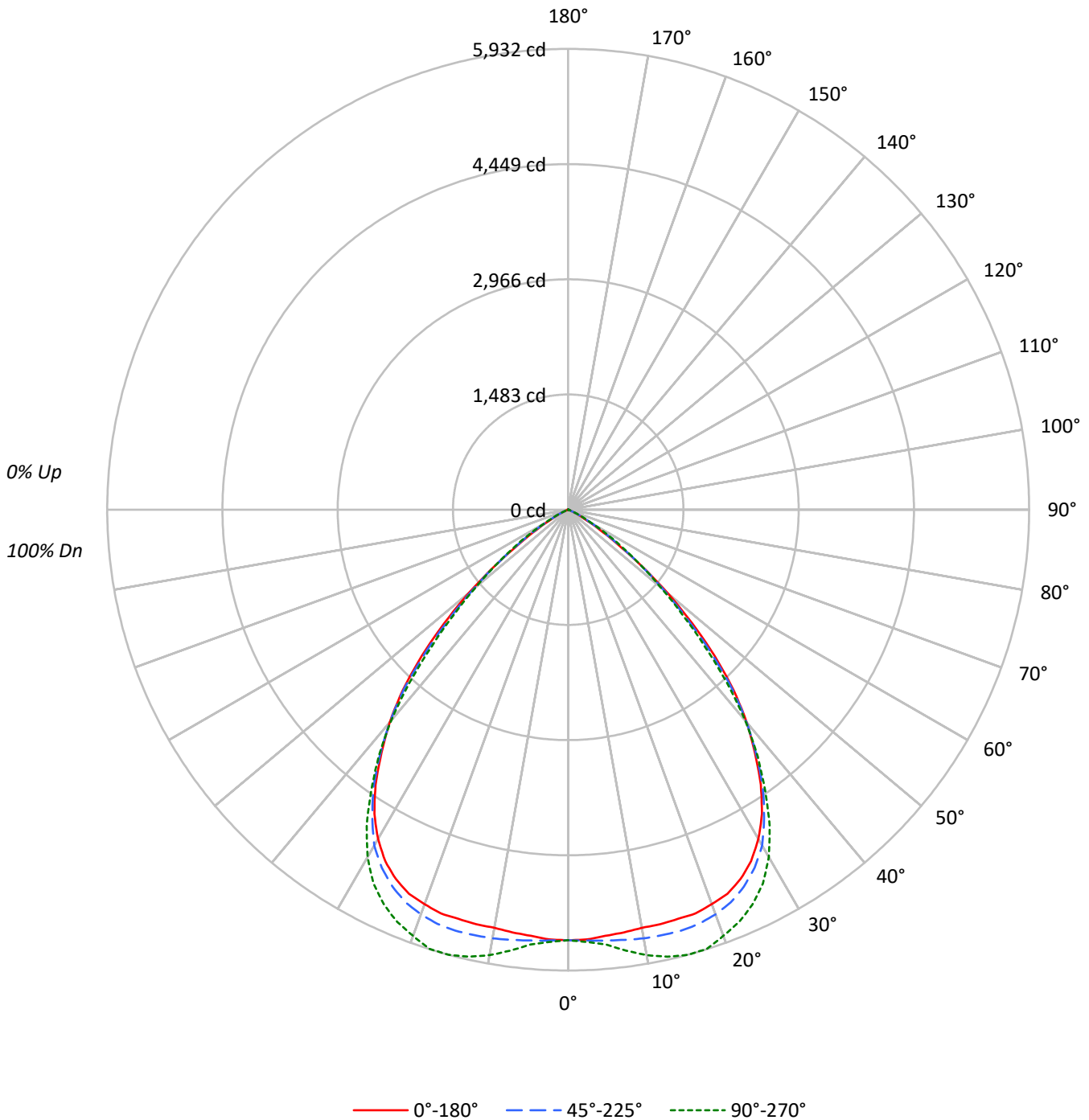
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	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	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	38	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°	533.3	5.2
10°-20°	1596.7	15.6
20°-30°	2470.7	24.2
30°-40°	2706.1	26.5
40°-50°	1979.8	19.4
50°-60°	776.8	7.6
60°-70°	125.7	1.2
70°-80°	11.6	0.1
80°-90°	2.3	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°	4600.6	45.1
0°-40°	7306.8	71.6
0°-60°	10063.4	98.6
0°-90°	10203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10203.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5542	5542	5542	5542	5542	
5°	5506	5519	5567	5607	5619	525
15°	5453	5489	5610	5819	5932	1544
25°	5246	5262	5352	5514	5608	2405
35°	4321	4329	4366	4407	4418	2676
45°	2667	2663	2592	2512	2478	2031
55°	765	781	814	843	871	753
65°	91	89	97	106	114	111
75°	6	10	12	9	11	11
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°	5542.2	5542.2	5542.2	5542.2	5542.2
2.5°	5536.7	5540.0	5550.8	5561.7	5568.2
5°	5506.3	5519.4	5567.1	5607.3	5619.2
7.5°	5487.9	5509.6	5584.5	5685.4	5724.5
10°	5465.1	5496.6	5602.9	5746.2	5822.1
12.5°	5466.2	5496.6	5609.4	5796.1	5893.8
15°	5453.2	5489.0	5610.5	5818.9	5931.7
17.5°	5449.9	5467.3	5591.0	5802.6	5927.4
20°	5403.3	5427.1	5543.2	5731.0	5838.4
22.5°	5352.2	5363.1	5469.5	5653.9	5745.1
25°	5245.9	5262.2	5352.2	5513.9	5608.4
27.5°	5099.4	5102.7	5193.8	5343.6	5426.0
30°	4894.3	4910.6	4992.0	5102.7	5161.3
32.5°	4640.4	4638.2	4691.4	4787.9	4825.9
35°	4321.3	4328.9	4365.8	4407.0	4417.9
37.5°	3946.9	3956.7	3981.6	3995.7	4005.5
40°	3573.6	3573.6	3570.3	3555.1	3543.2
42.5°	3148.2	3134.1	3117.8	3050.5	3021.2
45°	2667.4	2663.1	2591.5	2512.3	2477.5
47.5°	2161.7	2137.9	2063.0	1999.0	1984.8
50°	1665.8	1640.8	1601.8	1570.3	1549.7
52.5°	1187.2	1168.8	1185.0	1185.0	1182.9
55°	765.1	781.4	813.9	843.2	871.4
57.5°	485.1	506.8	556.7	594.7	604.5
60°	277.8	294.1	328.8	362.5	369.0
62.5°	174.7	175.8	198.6	218.1	230.1
65°	91.2	89.0	96.6	106.4	113.9
67.5°	38.0	38.0	45.6	44.5	56.4
70°	19.5	16.3	18.4	21.7	25.0
72.5°	14.1	10.9	15.2	19.5	8.7
75°	6.5	9.8	11.9	8.7	10.9
77.5°	8.7	8.7	6.5	10.9	2.2
80°	6.5	4.3	7.6	3.3	0.0
82.5°	1.1	2.2	1.1	1.1	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	7.6	3.3	5.4	4.3	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)