

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: P247621

Luminaire Tested: **LSR8B120D010 EC8B120930 8LBW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-62)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120930 8LBW0B
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6727.2 lumens
Efficiency: N/A
Efficacy: 56.9 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

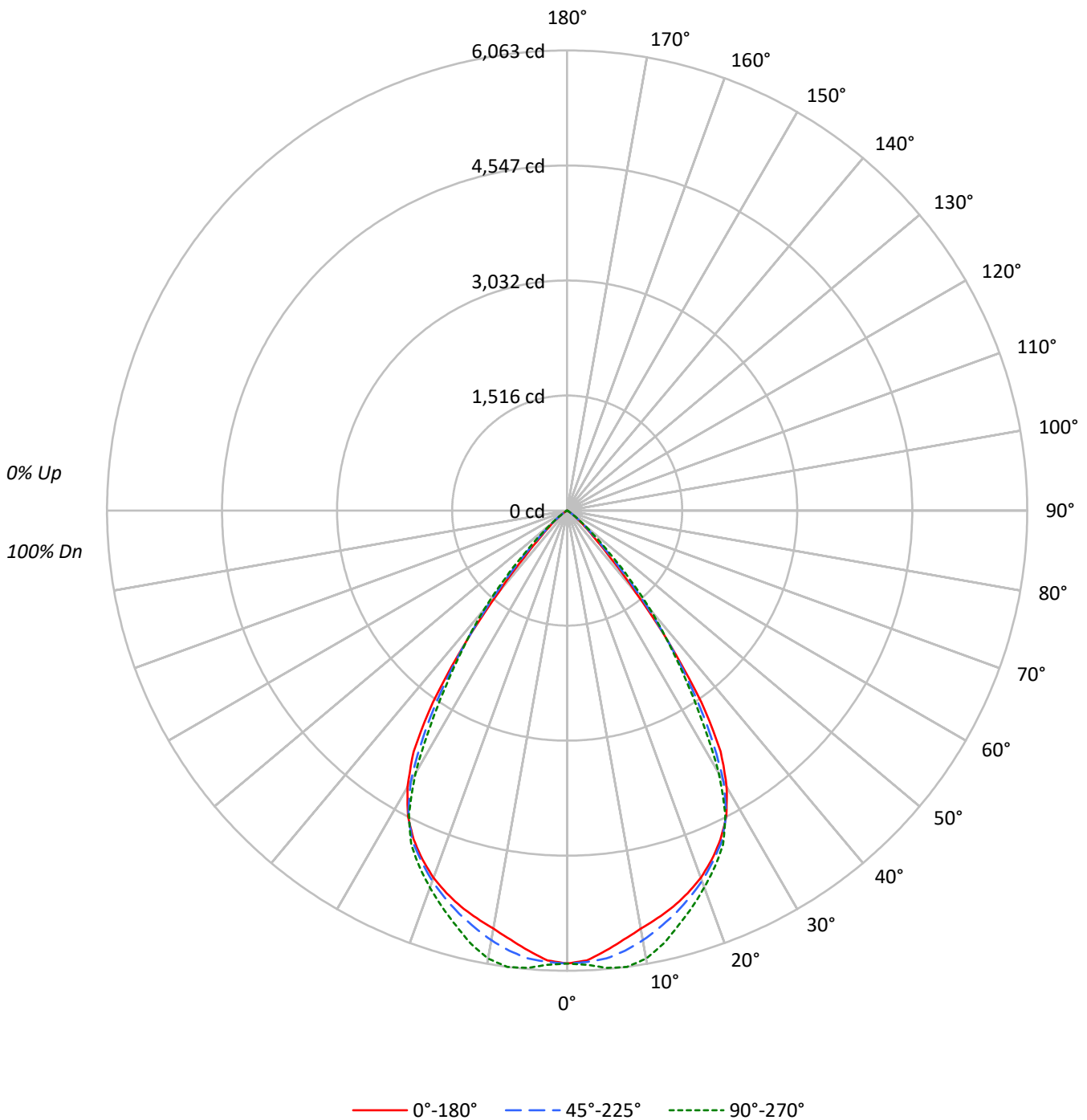
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93			
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86	86	86	86			
3	102	95	90	86	100	93	89	85	91	87	84	88	85	82	86	83	81	79	79	79	79			
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	73	73	73	73			
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68	68	68	68			
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64	63	63	63	63			
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	58	58	58			
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54	54	54	54			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50	50	50	50			
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47	47	47	47			

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°	560.9	8.3
10°-20°	1552.1	23.1
20°-30°	2187.1	32.5
30°-40°	1769.4	26.3
40°-50°	561.7	8.4
50°-60°	89.8	1.3
60°-70°	6.1	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	4300.1	63.9
0°-40°	6069.5	90.2
0°-60°	6721.1	99.9
0°-90°	6727.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6727.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5967	5967	5967	5967	5967	
5°	5822	5849	5924	6011	6048	548
15°	5402	5423	5498	5603	5660	1521
25°	4782	4790	4816	4843	4859	2184
35°	3081	2997	2871	2768	2727	1827
45°	500	540	644	735	780	466
55°	79	80	85	89	88	82
65°	2	4	4	4	4	6
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5966.9	5966.9	5966.9	5966.9	5966.9
2.5°	5932.8	5938.8	5953.4	5981.4	5990.0
5°	5822.0	5848.8	5924.3	6010.6	6048.4
7.5°	5702.9	5738.2	5848.8	5994.8	6062.9
10°	5593.3	5631.1	5749.0	5904.8	5993.5
12.5°	5500.9	5530.1	5626.2	5766.1	5848.8
15°	5402.3	5423.1	5498.5	5603.1	5660.3
17.5°	5284.4	5302.7	5352.6	5434.0	5477.8
20°	5148.1	5153.0	5195.6	5247.8	5285.6
22.5°	4979.0	4984.0	5008.3	5058.1	5083.6
25°	4782.0	4790.5	4816.0	4842.8	4858.6
27.5°	4539.9	4543.5	4531.4	4509.4	4514.4
30°	4204.2	4190.7	4122.6	4029.0	4001.0
32.5°	3763.8	3675.0	3527.8	3396.4	3342.9
35°	3081.3	2997.4	2870.9	2767.5	2727.4
37.5°	2214.0	2220.0	2211.5	2188.4	2193.3
40°	1400.1	1456.2	1588.7	1675.1	1701.9
42.5°	840.6	901.4	1047.4	1164.2	1201.9
45°	500.0	540.1	643.6	734.7	779.8
47.5°	321.2	340.6	391.7	445.3	470.8
50°	212.9	222.6	243.3	267.6	278.6
52.5°	136.2	139.9	149.7	158.2	166.7
55°	79.0	80.3	85.2	88.8	87.6
57.5°	41.4	41.4	41.4	41.4	41.4
60°	23.1	21.9	21.9	21.9	20.6
62.5°	11.0	11.0	11.0	9.8	9.8
65°	2.5	3.7	3.7	3.7	3.7
67.5°	0.0	0.0	0.0	0.0	1.2
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)