

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: P247585

Luminaire Tested: **LSR8B120D010 EC8B120835 8LBW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247585
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 EC8B120835 8LBW0B
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8146.0 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

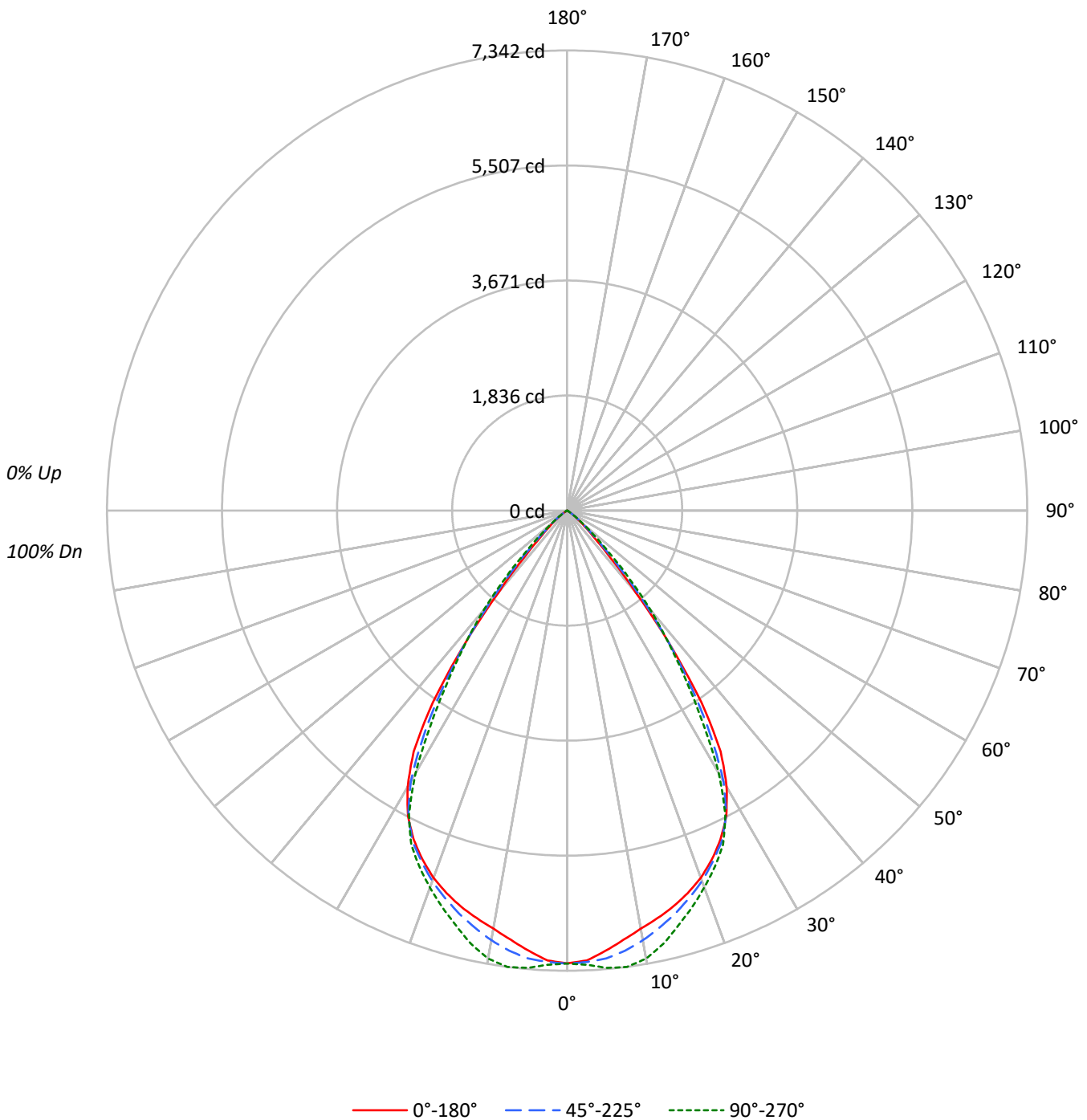
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	100	100		
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	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	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	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	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	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	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	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	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	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	47	47	47		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	222802	222802	222802
5°	218226	222059	226708
10°	212079	217985	227253
15°	208841	212557	218811
20°	204571	206454	210031
25°	197020	198422	200177
30°	181270	177756	172511
35°	140462	130866	124324
40°	68251	77441	82955
45°	26401	33980	41176
50°	12367	14133	16181
55°	5145	5543	5704
60°	1727	1634	1542
65°	212	321	321
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	679.2	8.3
10°-20°	1879.5	23.1
20°-30°	2648.4	32.5
30°-40°	2142.6	26.3
40°-50°	680.2	8.3
50°-60°	108.8	1.3
60°-70°	7.4	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°	5207.1	63.9
0°-40°	7349.7	90.2
0°-60°	8138.6	99.9
0°-90°	8146.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8146.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7225	7225	7225	7225	7225	
5°	7050	7082	7174	7278	7324	664
15°	6542	6567	6658	6785	6854	1842
25°	5791	5801	5832	5864	5883	2644
35°	3731	3630	3476	3351	3303	2212
45°	605	654	779	890	944	564
55°	96	97	103	108	106	100
65°	3	4	4	4	4	7
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°	7225.3	7225.3	7225.3	7225.3	7225.3
2.5°	7184.1	7191.5	7209.1	7243.0	7253.3
5°	7050.0	7082.5	7173.8	7278.4	7324.0
7.5°	6905.7	6948.4	7082.5	7259.2	7341.7
10°	6773.1	6818.8	6961.7	7150.2	7257.7
12.5°	6661.2	6696.5	6812.9	6982.3	7082.5
15°	6541.8	6566.9	6658.2	6784.9	6854.1
17.5°	6399.0	6421.1	6481.4	6580.1	6633.2
20°	6234.0	6239.9	6291.4	6354.8	6400.4
22.5°	6029.2	6035.1	6064.6	6125.0	6155.9
25°	5790.6	5800.9	5831.8	5864.2	5883.4
27.5°	5497.4	5501.9	5487.1	5460.6	5466.5
30°	5090.9	5074.7	4992.2	4878.8	4844.9
32.5°	4557.6	4450.1	4271.9	4112.8	4048.0
35°	3731.3	3629.6	3476.4	3351.2	3302.6
37.5°	2681.0	2688.3	2678.0	2650.0	2655.9
40°	1695.5	1763.2	1923.8	2028.4	2060.8
42.5°	1017.9	1091.5	1268.3	1409.7	1455.4
45°	605.4	654.0	779.2	889.7	944.2
47.5°	388.9	412.5	474.3	539.1	570.1
50°	257.8	269.6	294.6	324.1	337.3
52.5°	165.0	169.4	181.2	191.5	201.8
55°	95.7	97.2	103.1	107.5	106.1
57.5°	50.1	50.1	50.1	50.1	50.1
60°	28.0	26.5	26.5	26.5	25.0
62.5°	13.3	13.3	13.3	11.8	11.8
65°	2.9	4.4	4.4	4.4	4.4
67.5°	0.0	0.0	0.0	0.0	1.5
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)