

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: P247493

Luminaire Tested: **LSR8B120D010 EC8B120840 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247493
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-61)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120840 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11109.0 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

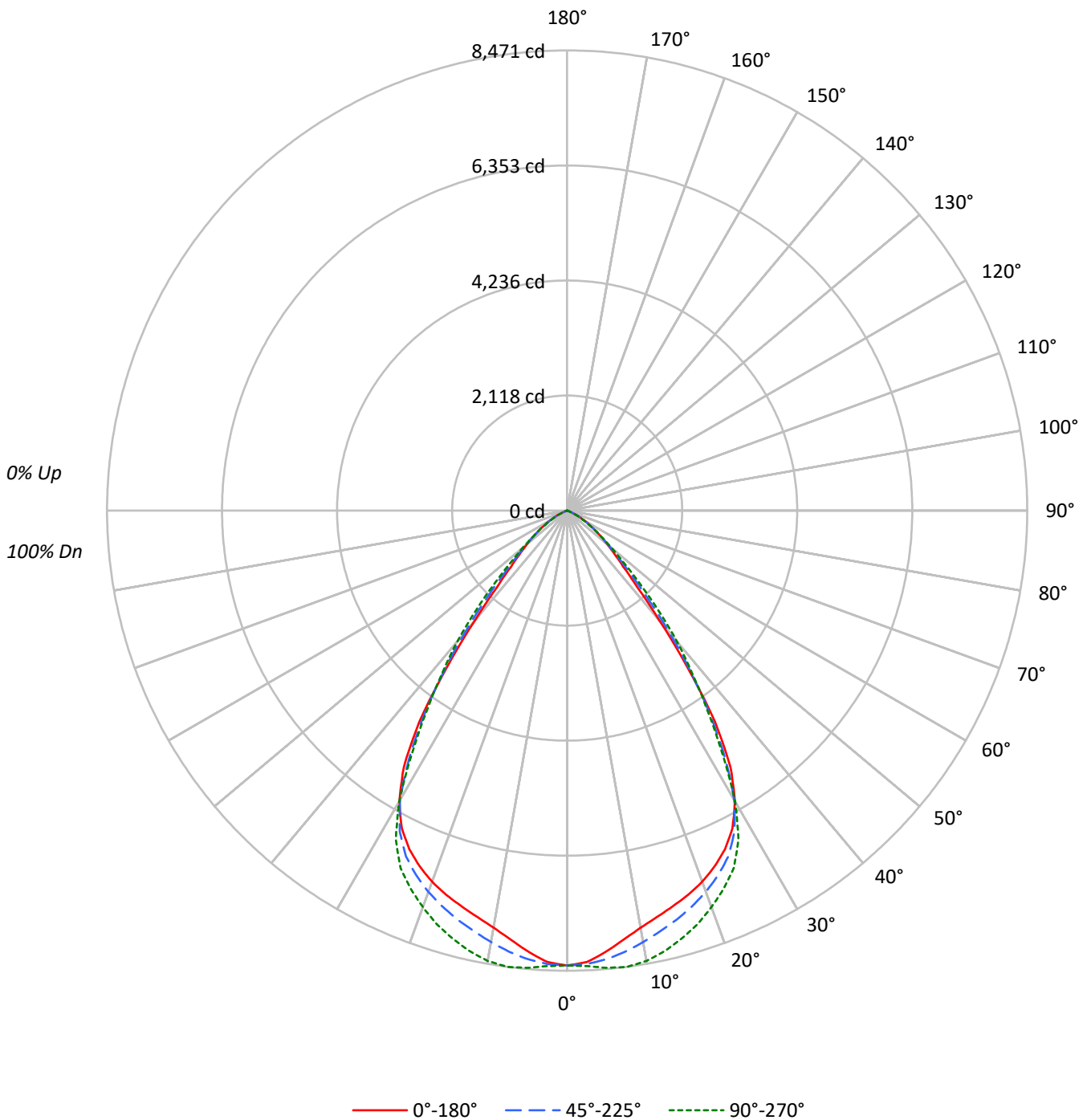
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92					92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84					84			
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76					76			
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69					69			
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63					63			
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58					58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53					53			
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49					49			
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47	46					46			
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42					42			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	258248	258248	258248
5°	252394	256653	261544
10°	244040	252563	263559
15°	240590	248810	260351
20°	238564	245098	254939
25°	233960	238938	246954
30°	219936	219102	220146
35°	178701	172696	170054
40°	106089	116930	126647
45°	63495	71475	81174
50°	46265	47455	50966
55°	33515	32332	33042
60°	22745	21030	20216
65°	11426	10573	10040
70°	3165	2768	2506
75°	1215	870	870
80°	515	515	266
85°	531	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	785.2	7.1
10°-20°	2205.1	19.8
20°-30°	3205.0	28.9
30°-40°	2834.2	25.5
40°-50°	1348.3	12.1
50°-60°	561.6	5.1
60°-70°	156.9	1.4
70°-80°	11.8	0.1
80°-90°	0.9	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°	6195.3	55.8
0°-40°	9029.5	81.3
0°-60°	10939.4	98.5
0°-90°	11109.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11109.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8375	8375	8375	8375	8375	
5°	8154	8195	8291	8401	8449	767
15°	7536	7605	7794	8031	8155	2129
25°	6876	6907	7023	7178	7258	3143
35°	4747	4680	4588	4517	4517	2841
45°	1456	1507	1639	1791	1861	1212
55°	623	616	601	601	615	567
65°	157	154	145	139	138	171
75°	10	9	7	7	7	14
85°	2	2	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8374.8	8374.8	8374.8	8374.8	8374.8
2.5°	8319.2	8326.5	8354.3	8380.6	8392.3
5°	8153.8	8194.8	8291.4	8401.1	8449.4
7.5°	7965.0	8026.5	8188.9	8382.1	8471.4
10°	7793.8	7871.4	8066.0	8304.5	8417.2
12.5°	7659.2	7730.9	7929.9	8178.7	8306.0
15°	7536.3	7605.1	7793.8	8030.9	8155.3
17.5°	7413.4	7479.2	7641.6	7862.6	7982.6
20°	7269.9	7322.6	7469.0	7663.6	7768.9
22.5°	7091.4	7139.7	7262.6	7435.3	7530.4
25°	6876.3	6907.0	7022.6	7177.8	7258.2
27.5°	6590.9	6598.3	6668.5	6769.5	6829.5
30°	6176.8	6172.4	6153.4	6149.0	6182.7
32.5°	5597.3	5532.9	5421.7	5369.0	5328.1
35°	4747.1	4679.8	4587.6	4517.4	4517.4
37.5°	3629.1	3687.7	3724.2	3768.1	3790.1
40°	2635.5	2721.8	2904.8	3095.0	3146.2
42.5°	1915.5	1996.0	2193.6	2405.8	2467.2
45°	1456.0	1507.3	1639.0	1791.1	1861.4
47.5°	1176.5	1191.2	1257.0	1347.7	1381.4
50°	964.4	968.7	989.2	1036.1	1062.4
52.5°	780.0	777.0	782.9	796.1	807.8
55°	623.4	616.1	601.4	601.4	614.6
57.5°	481.4	471.2	455.1	447.8	443.4
60°	368.8	358.5	341.0	329.3	327.8
62.5°	264.9	256.1	238.5	228.3	225.4
65°	156.6	153.7	144.9	139.0	137.6
67.5°	73.2	70.2	62.9	60.0	58.5
70°	35.1	33.7	30.7	29.3	27.8
72.5°	17.6	17.6	14.6	14.6	14.6
75°	10.2	8.8	7.3	7.3	7.3
77.5°	5.9	4.4	4.4	4.4	4.4
80°	2.9	2.9	2.9	1.5	1.5
82.5°	1.5	1.5	1.5	1.5	1.5
85°	1.5	1.5	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)