

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: P250200

Luminaire Tested: **LSR8B120D010 EC8B1209730 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250200
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13942)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B1209730 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9111.0 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

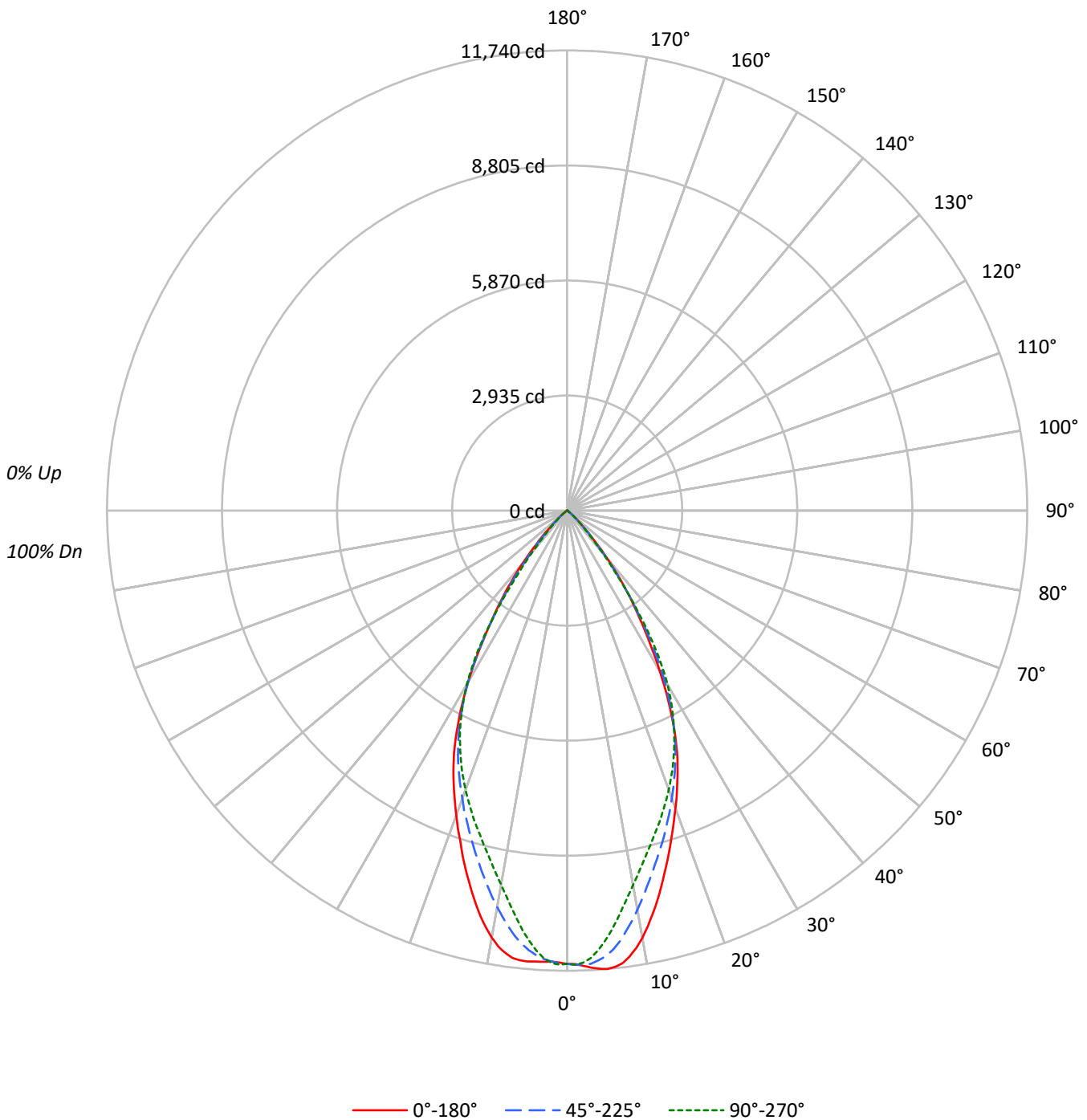
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100		
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94	94	94	94	94		
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87	87	87	87	87		
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81	81	81	81	81		
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76	76	76	76	76		
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71	71	71	71	71		
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66	66	66	66	66		
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62	62	62	62	62		
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58	58	58	58	58		
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55	55	55	55	55		
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52	52	52	52	52		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
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°	1049.7	11.5
10°-20°	2538.8	27.9
20°-30°	2975.6	32.7
30°-40°	1957.8	21.5
40°-50°	510.9	5.6
50°-60°	62.8	0.7
60°-70°	13.0	0.1
70°-80°	2.4	0.0
80°-90°	0.1	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°	6564.0	72.0
0°-40°	8521.7	93.5
0°-60°	9095.5	99.8
0°-90°	9111.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9111.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11563	11563	11563	11563	11563	
5°	11740	11405	11028	11256	11549	###
15°	9584	9041	8580	9041	9747	2671
25°	6584	6519	6472	6581	6826	2968
35°	2994	3061	3166	3196	3247	1875
45°	582	548	512	593	692	522
55°	45	48	53	53	51	60
65°	17	14	14	11	11	12
75°	0	3	0	0	0	1
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°	112.5°	135°	157.5°	180°
0°	11562.7	11562.7	11562.7	11562.7	11562.7	11562.7	11562.7	11562.7	11562.7
1°	11571.1	11588.0	11593.6	11610.5	11585.2	11568.3	11545.8	11528.9	11531.7
2°	11621.7	11630.2	11599.2	11588.0	11543.0	11528.9	11512.0	11509.2	11512.0
3°	11675.1	11658.2	11576.7	11500.8	11433.4	11424.9	11455.8	11500.8	11526.1
4°	11717.3	11672.3	11500.8	11360.2	11253.4	11245.0	11368.7	11483.9	11531.7
5°	11739.8	11658.2	11405.2	11169.1	11028.5	11081.9	11256.2	11461.4	11548.6
6°	11708.8	11588.0	11259.0	10944.2	10783.9	10854.2	11110.1	11408.0	11537.4
7°	11630.2	11475.5	11070.7	10699.6	10502.8	10612.5	10938.6	11318.1	11495.2
8°	11483.9	11298.4	10831.7	10415.7	10221.7	10345.4	10727.7	11188.7	11394.0
9°	11292.8	11087.6	10595.6	10157.0	9949.0	10095.2	10508.4	11017.3	11253.4
10°	11065.1	10845.8	10334.1	9887.2	9698.8	9836.5	10272.3	10817.6	11062.3
11°	10798.0	10587.1	10072.7	9634.2	9454.2	9589.2	10036.2	10578.7	10843.0
12°	10508.4	10314.5	9805.7	9389.6	9220.9	9350.2	9783.2	10331.3	10592.8
13°	10218.9	10024.9	9547.0	9153.4	8998.8	9122.5	9535.7	10061.5	10322.9
14°	9906.8	9729.7	9288.4	8928.5	8788.0	8906.0	9282.7	9788.7	10036.2
15°	9583.5	9442.9	9041.0	8712.0	8579.9	8692.3	9041.0	9507.6	9746.6
16°	9279.9	9150.6	8802.0	8498.4	8388.8	8478.7	8796.4	9226.5	9454.2
17°	8970.7	8852.6	8563.0	8287.5	8189.2	8276.3	8546.2	8942.6	9147.8
18°	8661.5	8563.0	8301.6	8065.5	7978.3	8057.0	8298.8	8655.8	8841.3
19°	8374.7	8284.7	8062.7	7863.1	7784.4	7854.6	8082.3	8380.3	8565.9
20°	8079.5	8006.4	7812.4	7649.4	7576.3	7640.9	7818.1	8107.7	8270.7
21°	7795.6	7730.9	7562.3	7424.5	7365.5	7418.9	7581.9	7843.4	7986.7
22°	7500.4	7463.9	7312.1	7196.8	7157.4	7191.2	7340.1	7565.1	7700.0
23°	7210.8	7177.1	7061.8	6966.3	6932.5	6966.3	7098.4	7300.8	7421.7
24°	6918.5	6882.0	6797.6	6735.7	6707.6	6735.7	6848.2	7019.7	7135.0
25°	6584.0	6578.3	6519.3	6485.5	6471.5	6502.4	6581.2	6730.1	6825.7
26°	6263.4	6246.6	6229.7	6224.1	6226.9	6243.8	6308.4	6420.9	6496.8
27°	5869.9	5895.2	5920.5	5954.2	5965.4	5979.5	6010.4	6091.9	6148.2
28°	5493.2	5541.0	5602.8	5670.3	5701.2	5701.2	5704.0	5749.0	5796.8
29°	5119.3	5169.9	5268.3	5369.5	5411.6	5406.0	5383.5	5403.2	5431.3
30°	4728.5	4793.2	4925.3	5057.5	5119.3	5096.8	5054.6	5035.0	5051.8
31°	4346.2	4410.9	4557.0	4700.4	4781.9	4756.7	4683.5	4669.5	4677.9
32°	3980.7	4045.4	4180.3	4332.1	4424.9	4391.2	4315.3	4292.8	4295.6
33°	3626.5	3677.1	3800.8	3941.4	4017.3	4008.8	3947.0	3918.9	3921.7
34°	3292.0	3334.2	3426.9	3533.8	3606.8	3604.0	3559.0	3561.8	3570.3
35°	2994.0	3016.5	3061.4	3120.5	3165.5	3190.7	3196.4	3218.9	3247.0
37.5°	2263.1	2271.5	2218.1	2159.0	2147.8	2220.9	2347.4	2457.1	2499.2
40°	1568.7	1549.0	1481.5	1377.5	1346.6	1428.1	1588.4	1743.0	1799.2
42.5°	975.5	967.1	924.9	846.2	818.1	865.9	986.7	1104.8	1161.0
45°	581.9	570.7	548.2	517.3	511.6	531.3	593.1	660.6	691.6
47.5°	334.5	331.8	317.7	306.4	303.6	317.7	345.8	385.1	393.6
50°	182.7	179.9	177.1	177.1	177.1	185.5	199.6	210.8	216.5
52.5°	90.0	92.8	90.0	92.8	95.6	101.2	98.4	109.6	109.6
55°	45.0	42.2	47.8	53.4	53.4	53.4	53.4	53.4	50.6
57.5°	33.7	36.5	31.0	33.7	31.0	31.0	28.1	31.0	33.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	22.5	19.7	22.5	25.3	28.1	25.3	19.7	22.5	25.3
62.5°	11.2	11.2	11.2	16.9	25.3	19.7	16.9	14.0	14.0
65°	16.9	11.2	14.0	16.9	14.0	14.0	11.2	14.0	11.2
67.5°	8.5	14.0	8.5	5.6	8.5	11.2	8.5	5.6	5.6
70°	0.0	2.8	2.8	8.5	8.5	8.5	8.5	5.6	5.6
72.5°	2.8	2.8	2.8	5.6	2.8	5.6	2.8	2.8	5.6
75°	0.0	0.0	2.8	2.8	0.0	2.8	0.0	0.0	0.0
77.5°	2.8	0.0	2.8	2.8	0.0	0.0	0.0	2.8	0.0
80°	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	2.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)