

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: P250186

Luminaire Tested: **LSR8B120D010 EC8B120950 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250186
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 EC8B120950 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11405.0 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

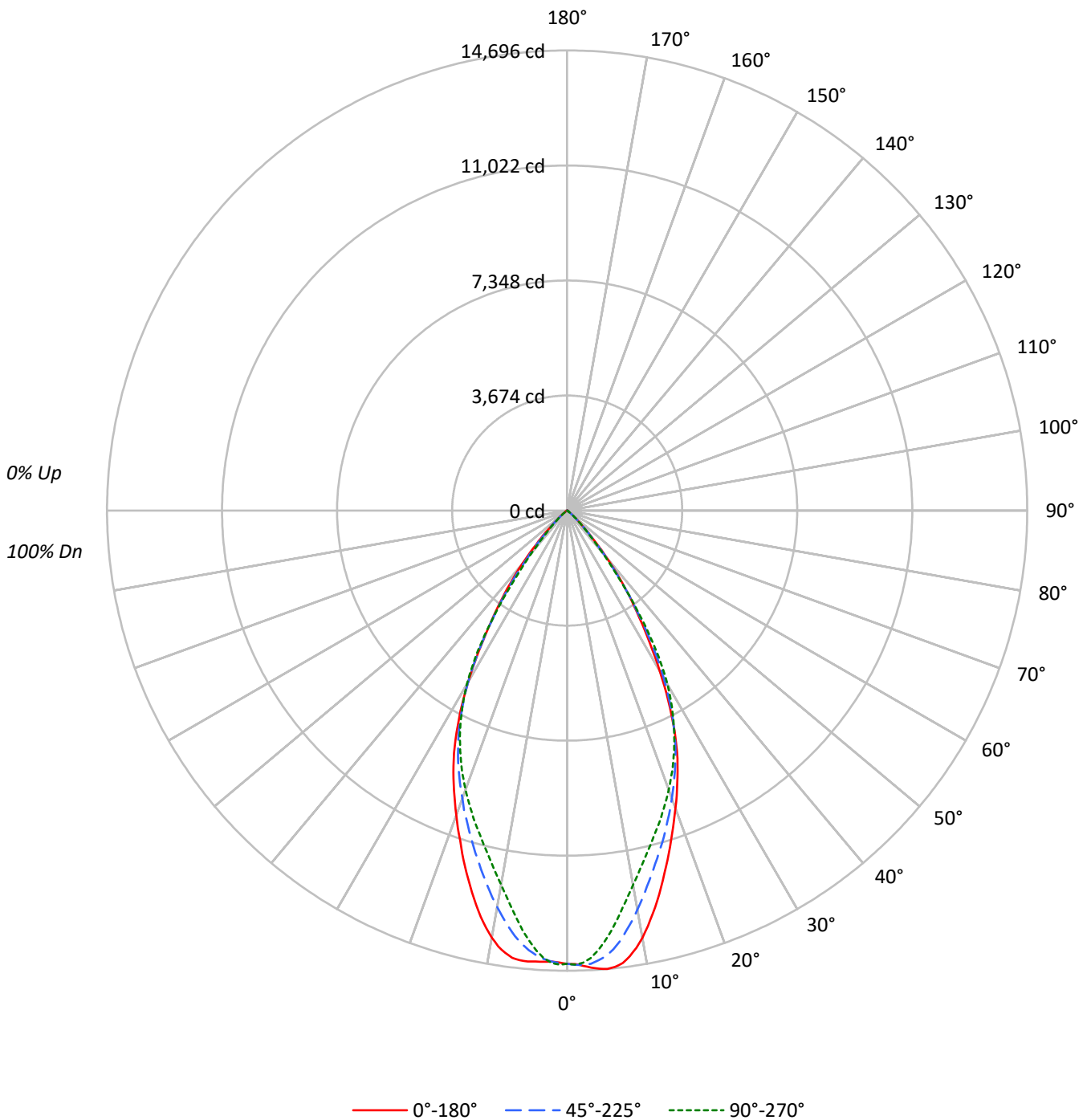
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94	94	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	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	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	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	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	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	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	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	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	52	52		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	446325	446325	446325
5°	454892	427331	447482
10°	433706	380153	433593
15°	382977	342871	389493
20°	331888	311217	339740
25°	280416	275626	290712
30°	210760	228178	225170
35°	141083	149165	153005
40°	79043	67852	90660
45°	31769	27932	37752
50°	10971	10636	13001
55°	3027	3597	3408
60°	1739	2171	1955
65°	1540	1284	1022
70°	0	956	640
75°	0	0	0
80°	0	0	622
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1314.0	11.5
10°-20°	3178.0	27.9
20°-30°	3724.8	32.7
30°-40°	2450.7	21.5
40°-50°	639.5	5.6
50°-60°	78.7	0.7
60°-70°	16.3	0.1
70°-80°	3.0	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°	8216.7	72.0
0°-40°	10667.4	93.5
0°-60°	11385.6	99.8
0°-90°	11405.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11405.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14474	14474	14474	14474	14474	
5°	14696	14277	13805	14090	14456	###
15°	11996	11317	10740	11317	12201	3344
25°	8242	8161	8101	8238	8544	3716
35°	3748	3832	3962	4001	4064	2347
45°	728	686	640	742	866	653
55°	56	60	67	67	63	75
65°	21	18	18	14	14	15
75°	0	4	0	0	0	2
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°	14474.0	14474.0	14474.0	14474.0	14474.0	14474.0	14474.0	14474.0	14474.0
1°	14484.5	14505.6	14512.6	14533.8	14502.1	14481.0	14452.9	14431.7	14435.2
2°	14547.8	14558.4	14519.7	14505.6	14449.3	14431.7	14410.6	14407.1	14410.6
3°	14614.7	14593.6	14491.5	14396.6	14312.1	14301.5	14340.2	14396.6	14428.2
4°	14667.5	14611.2	14396.6	14220.6	14086.8	14076.3	14231.1	14375.4	14435.2
5°	14695.7	14593.6	14276.9	13981.3	13805.3	13872.2	14090.4	14347.2	14456.3
6°	14656.9	14505.6	14093.9	13699.8	13499.2	13587.2	13907.4	14280.4	14442.3
7°	14558.4	14364.9	13858.1	13393.6	13147.2	13284.5	13692.7	14167.8	14389.5
8°	14375.4	14143.1	13559.0	13038.1	12795.3	12950.1	13428.8	14005.9	14262.8
9°	14136.1	13879.2	13263.4	12714.4	12454.0	12637.0	13154.3	13791.2	14086.8
10°	13851.1	13576.6	12936.1	12376.6	12140.8	12313.2	12858.7	13541.4	13847.5
11°	13516.7	13252.8	12608.8	12059.9	11834.6	12003.6	12563.1	13242.3	13573.0
12°	13154.3	12911.5	12274.6	11753.7	11542.6	11704.5	12246.4	12932.6	13259.9
13°	12791.8	12549.0	11950.8	11458.1	11264.5	11419.4	11936.7	12594.8	12922.0
14°	12401.2	12179.5	11627.0	11176.5	11000.6	11148.4	11620.0	12253.4	12563.1
15°	11996.5	11820.5	11317.3	10905.6	10740.2	10880.9	11317.3	11901.5	12200.6
16°	11616.5	11454.6	11018.2	10638.1	10501.0	10613.5	11011.2	11549.6	11834.6
17°	11229.3	11081.6	10719.1	10374.2	10251.1	10360.2	10698.0	11194.2	11451.0
18°	10842.3	10719.1	10391.9	10096.3	9987.2	10085.7	10388.3	10835.2	11067.4
19°	10483.3	10370.7	10092.7	9842.8	9744.3	9832.3	10117.4	10490.4	10722.6
20°	10113.8	10022.3	9779.5	9575.4	9483.9	9564.8	9786.5	10149.0	10353.1
21°	9758.4	9677.4	9466.3	9293.8	9220.0	9286.9	9490.9	9818.2	9997.7
22°	9388.9	9343.2	9153.1	9008.8	8959.6	9001.8	9188.3	9469.8	9638.8
23°	9026.4	8984.2	8839.9	8720.3	8678.0	8720.3	8885.7	9139.0	9290.4
24°	8660.4	8614.7	8509.2	8431.7	8396.5	8431.7	8572.4	8787.1	8931.4
25°	8241.7	8234.6	8160.8	8118.5	8100.9	8139.6	8238.2	8424.7	8544.3
26°	7840.5	7819.4	7798.3	7791.2	7794.7	7815.8	7896.8	8037.6	8132.6
27°	7347.8	7379.5	7411.1	7453.4	7467.4	7485.1	7523.8	7625.8	7696.2
28°	6876.2	6936.1	7013.5	7098.0	7136.7	7136.7	7140.2	7196.5	7256.3
29°	6408.3	6471.5	6594.8	6721.4	6774.2	6767.1	6739.0	6763.6	6798.8
30°	5919.1	6000.0	6165.4	6330.8	6408.3	6380.1	6327.3	6302.7	6323.8
31°	5440.5	5521.5	5704.4	5883.9	5985.9	5954.3	5862.8	5845.2	5855.7
32°	4983.0	5064.0	5232.8	5422.9	5539.0	5496.8	5401.8	5373.6	5377.1
33°	4539.6	4603.0	4757.8	4933.8	5028.8	5018.2	4940.8	4905.6	4909.1
34°	4120.9	4173.6	4289.7	4423.5	4515.0	4511.4	4455.1	4458.6	4469.2
35°	3747.8	3776.0	3832.2	3906.2	3962.5	3994.1	4001.2	4029.3	4064.5
37.5°	2832.9	2843.4	2776.6	2702.6	2688.6	2780.1	2938.4	3075.7	3128.5
40°	1963.6	1939.0	1854.5	1724.4	1685.6	1787.7	1988.3	2181.8	2252.2
42.5°	1221.2	1210.6	1157.8	1059.3	1024.1	1083.9	1235.2	1383.0	1453.4
45°	728.5	714.3	686.2	647.5	640.5	665.1	742.5	827.0	865.7
47.5°	418.7	415.3	397.6	383.6	380.1	397.6	432.9	482.1	492.7
50°	228.7	225.3	221.7	221.7	221.7	232.2	249.9	263.9	271.0
52.5°	112.6	116.2	112.6	116.2	119.7	126.7	123.1	137.3	137.3
55°	56.3	52.8	59.8	66.9	66.9	66.9	66.9	66.9	63.4
57.5°	42.2	45.7	38.7	42.2	38.7	38.7	35.2	38.7	42.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	28.2	24.6	28.2	31.7	35.2	31.7	24.6	28.2	31.7
62.5°	14.0	14.0	14.0	21.1	31.7	24.6	21.1	17.6	17.6
65°	21.1	14.0	17.6	21.1	17.6	17.6	14.0	17.6	14.0
67.5°	10.6	17.6	10.6	7.1	10.6	14.0	10.6	7.1	7.1
70°	0.0	3.5	3.5	10.6	10.6	10.6	10.6	7.1	7.1
72.5°	3.5	3.5	3.5	7.1	3.5	7.1	3.5	3.5	7.1
75°	0.0	0.0	3.5	3.5	0.0	3.5	0.0	0.0	0.0
77.5°	3.5	0.0	3.5	3.5	0.0	0.0	0.0	3.5	0.0
80°	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	3.5
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)