

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 EC8B120930 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 EC8B120930 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: 10213.4 lumens
Efficiency: N/A
Efficacy: 86.3 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

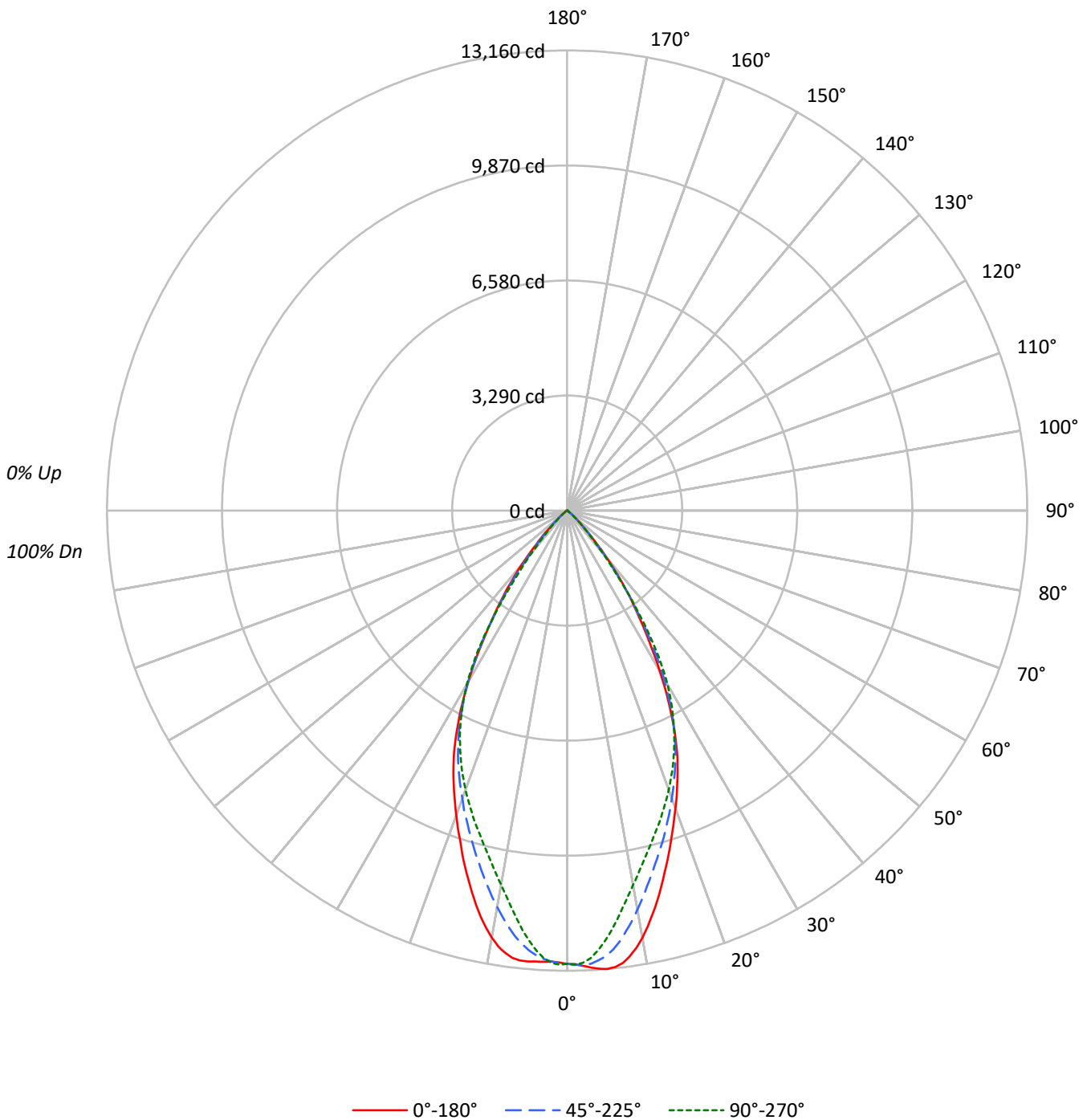
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	106	102	102	102	102	100	100	100	100
1	114	111	108	106	111	109	107	105	105	103	101	101	101	100	98	98	98	97	96	96	94	94	94	94
2	108	103	99	96	106	102	98	95	98	95	93	93	95	93	91	91	93	91	89	89	87	87	87	87
3	103	97	92	88	101	95	91	87	93	89	86	86	90	87	84	84	88	85	83	83	81	81	81	81
4	98	90	85	81	96	89	84	80	87	83	79	79	85	81	78	78	83	80	77	77	76	76	76	76
5	93	85	79	75	91	84	78	74	82	77	74	74	80	76	73	73	79	75	72	72	71	71	71	71
6	88	80	74	69	87	79	73	69	77	72	69	69	76	72	68	68	75	71	68	68	66	66	66	66
7	84	75	69	65	83	74	69	65	73	68	64	64	72	67	64	64	71	67	64	64	62	62	62	62
8	80	71	65	61	79	70	64	61	69	64	60	60	68	63	60	60	67	63	60	60	58	58	58	58
9	76	67	61	57	75	66	61	57	65	60	57	57	64	60	56	56	64	59	56	56	55	55	55	55
10	73	63	57	54	72	63	57	54	62	57	53	53	61	56	53	53	60	56	53	53	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°	1176.7	11.5
10°-20°	2846.0	27.9
20°-30°	3335.6	32.7
30°-40°	2194.6	21.5
40°-50°	572.7	5.6
50°-60°	70.4	0.7
60°-70°	14.6	0.1
70°-80°	2.7	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°	7358.2	72.0
0°-40°	9552.9	93.5
0°-60°	10196.0	99.8
0°-90°	10213.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10213.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12962	12962	12962	12962	12962	
5°	13160	12785	12363	12618	12946	###
15°	10743	10135	9618	10135	10926	2995
25°	7381	7308	7255	7378	7652	3327
35°	3356	3432	3548	3583	3640	2101
45°	652	614	574	665	775	585
55°	50	54	60	60	57	67
65°	19	16	16	13	13	13
75°	0	3	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°	12961.8	12961.8	12961.8	12961.8	12961.8	12961.8	12961.8	12961.8	12961.8
1°	12971.2	12990.1	12996.4	13015.4	12987.0	12968.1	12942.8	12923.9	12927.0
2°	13027.9	13037.5	13002.7	12990.1	12939.7	12923.9	12905.0	12901.8	12905.0
3°	13087.8	13068.8	12977.5	12892.4	12816.8	12807.3	12842.0	12892.4	12920.8
4°	13135.1	13084.6	12892.4	12734.8	12615.1	12605.6	12744.3	12873.5	12927.0
5°	13160.3	13068.8	12785.2	12520.6	12362.9	12422.8	12618.2	12848.2	12946.0
6°	13125.6	12990.1	12621.3	12268.4	12088.8	12167.6	12454.4	12788.4	12933.4
7°	13037.5	12864.0	12410.3	11994.3	11773.6	11896.6	12262.2	12687.6	12886.1
8°	12873.5	12665.5	12142.3	11676.0	11458.5	11597.2	12025.8	12542.5	12772.7
9°	12659.2	12429.2	11877.7	11386.0	11152.8	11316.7	11779.9	12350.4	12615.1
10°	12404.0	12158.1	11584.5	11083.6	10872.4	11026.7	11515.2	12126.5	12400.8
11°	12104.6	11868.1	11291.5	10799.9	10598.2	10749.5	11250.6	11858.7	12155.0
12°	11779.9	11562.6	10992.2	10525.7	10336.6	10481.6	10967.0	11581.4	11874.5
13°	11455.4	11237.9	10702.2	10261.0	10087.7	10226.3	10689.5	11278.9	11572.0
14°	11105.5	10907.0	10412.3	10008.8	9851.3	9983.6	10405.9	10973.1	11250.6
15°	10743.1	10585.5	10135.0	9766.2	9618.1	9744.1	10135.0	10658.0	10925.9
16°	10402.8	10257.8	9867.0	9526.7	9403.8	9504.6	9860.8	10342.9	10598.2
17°	10056.2	9923.8	9599.1	9290.3	9180.1	9277.7	9580.3	10024.7	10254.7
18°	9709.5	9599.1	9306.1	9041.4	8943.7	9031.9	9303.0	9703.2	9911.1
19°	9388.0	9287.1	9038.3	8814.5	8726.3	8805.0	9060.3	9394.3	9602.4
20°	9057.1	8975.2	8757.7	8575.0	8493.0	8565.4	8764.1	9088.7	9271.5
21°	8738.9	8666.3	8477.3	8322.9	8256.7	8316.6	8499.3	8792.5	8953.1
22°	8407.9	8367.0	8196.9	8067.6	8023.4	8061.3	8228.3	8480.5	8631.7
23°	8083.3	8045.5	7916.3	7809.2	7771.3	7809.2	7957.3	8184.2	8319.7
24°	7755.6	7714.7	7620.1	7550.7	7519.2	7550.7	7676.8	7869.1	7998.3
25°	7380.7	7374.3	7308.1	7270.2	7254.6	7289.2	7377.5	7544.4	7651.6
26°	7021.3	7002.4	6983.5	6977.2	6980.4	6999.3	7071.7	7197.8	7282.9
27°	6580.2	6608.5	6636.9	6674.7	6687.2	6703.0	6737.7	6829.0	6892.1
28°	6157.9	6211.5	6280.7	6356.4	6391.0	6391.0	6394.2	6444.6	6498.2
29°	5738.7	5795.5	5905.8	6019.2	6066.4	6060.1	6034.9	6057.0	6088.5
30°	5300.6	5373.2	5521.3	5669.5	5738.7	5713.5	5666.2	5644.2	5663.1
31°	4872.1	4944.6	5108.4	5269.1	5360.5	5332.3	5250.2	5234.5	5243.9
32°	4462.4	4534.9	4686.1	4856.3	4960.3	4922.5	4837.5	4812.2	4815.4
33°	4065.3	4122.0	4260.7	4418.3	4503.4	4493.9	4424.6	4393.1	4396.2
34°	3690.3	3737.6	3841.6	3961.4	4043.2	4040.1	3989.6	3992.8	4002.3
35°	3356.3	3381.5	3431.8	3498.1	3548.5	3576.8	3583.2	3608.4	3639.9
37.5°	2536.9	2546.4	2486.5	2420.2	2407.7	2489.6	2631.4	2754.4	2801.6
40°	1758.5	1736.4	1660.8	1544.2	1509.5	1600.9	1780.6	1953.9	2016.9
42.5°	1093.5	1084.1	1036.8	948.6	917.1	970.7	1106.1	1238.5	1301.5
45°	652.3	639.8	614.5	579.9	573.5	595.6	664.9	740.5	775.3
47.5°	375.0	371.9	356.1	343.5	340.3	356.1	387.6	431.7	441.2
50°	204.8	201.7	198.5	198.5	198.5	207.9	223.8	236.3	242.7
52.5°	100.9	104.0	100.9	104.0	107.2	113.4	110.3	122.9	122.9
55°	50.4	47.3	53.6	59.9	59.9	59.9	59.9	59.9	56.7
57.5°	37.8	40.9	34.8	37.8	34.8	34.8	31.5	34.8	37.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	25.2	22.1	25.2	28.4	31.5	28.4	22.1	25.2	28.4
62.5°	12.6	12.6	12.6	18.9	28.4	22.1	18.9	15.7	15.7
65°	18.9	12.6	15.7	18.9	15.7	15.7	12.6	15.7	12.6
67.5°	9.5	15.7	9.5	6.3	9.5	12.6	9.5	6.3	6.3
70°	0.0	3.1	3.1	9.5	9.5	9.5	9.5	6.3	6.3
72.5°	3.1	3.1	3.1	6.3	3.1	6.3	3.1	3.1	6.3
75°	0.0	0.0	3.1	3.1	0.0	3.1	0.0	0.0	0.0
77.5°	3.1	0.0	3.1	3.1	0.0	0.0	0.0	3.1	0.0
80°	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	3.1
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)