

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: P250123

Luminaire Tested: **LSR8B120D010 EC8B120827 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250123
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 EC8B120827 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11603.0 lumens
Efficiency: N/A
Efficacy: 98.1 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

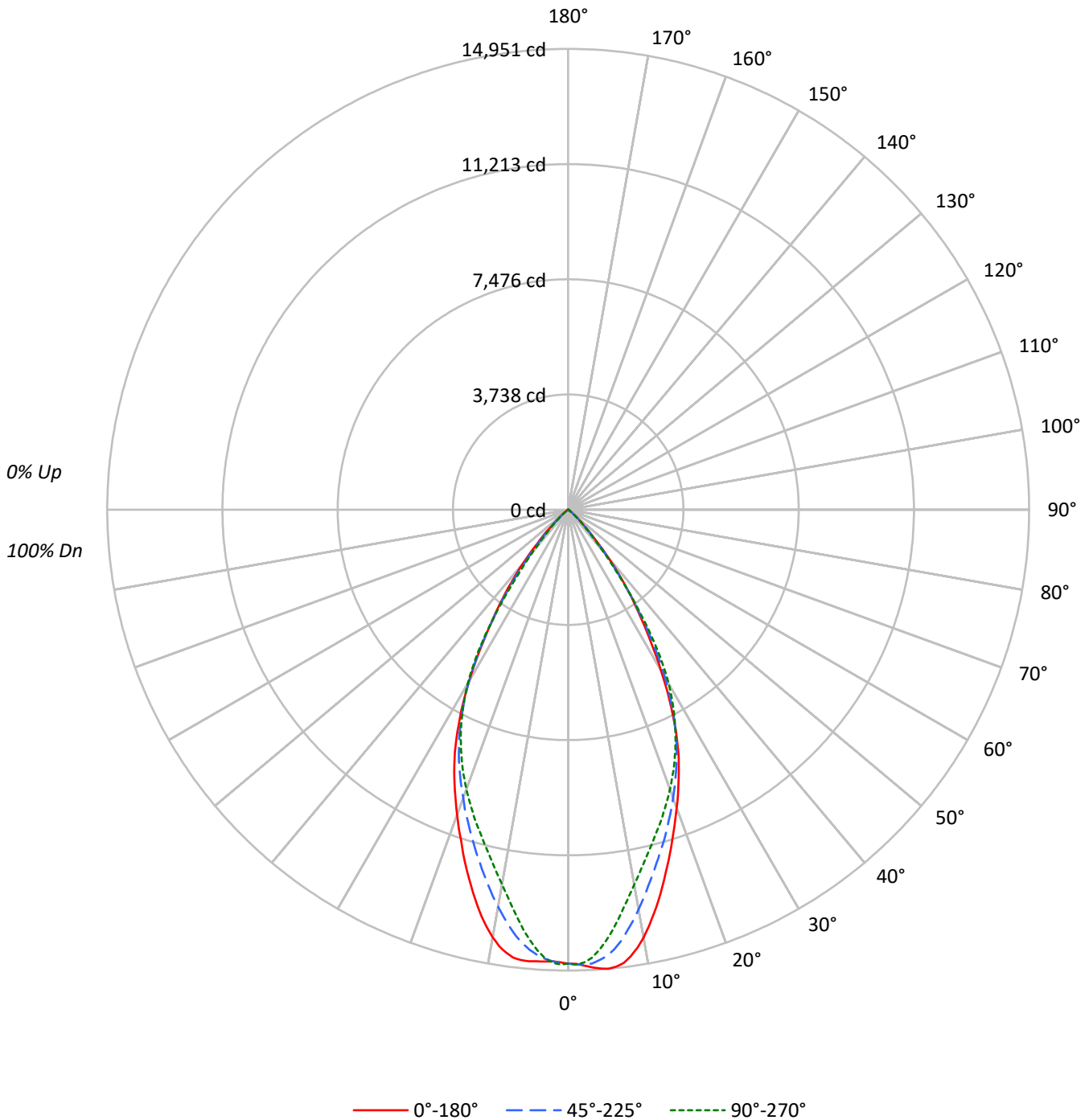
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	454071	454071	454071
5°	462789	434750	455251
10°	441233	386753	441121
15°	389627	348825	396255
20°	337650	316619	345637
25°	285285	280413	295758
30°	214416	232138	229079
35°	143534	151755	155662
40°	80415	69031	92234
45°	32319	28416	38407
50°	11163	10823	13226
55°	3081	3661	3468
60°	1764	2208	1986
65°	1569	1306	1043
70°	0	974	649
75°	0	0	0
80°	0	0	639
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1336.8	11.5
10°-20°	3233.2	27.9
20°-30°	3789.4	32.7
30°-40°	2493.2	21.5
40°-50°	650.6	5.6
50°-60°	80.0	0.7
60°-70°	16.6	0.1
70°-80°	3.1	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°	8359.3	72.0
0°-40°	10852.6	93.5
0°-60°	11583.2	99.8
0°-90°	11603.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11603.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14725	14725	14725	14725	14725	
5°	14951	14525	14045	14335	14707	###
15°	12205	11514	10927	11514	12412	3402
25°	8385	8302	8242	8381	8693	3780
35°	3813	3899	4031	4071	4135	2387
45°	741	698	652	755	881	664
55°	57	61	68	68	64	76
65°	22	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°	14725.2	14725.2	14725.2	14725.2	14725.2	14725.2	14725.2	14725.2	14725.2
1°	14735.9	14757.5	14764.6	14786.1	14753.9	14732.4	14703.8	14682.2	14685.8
2°	14800.4	14811.2	14771.8	14757.5	14700.2	14682.2	14660.8	14657.2	14660.8
3°	14868.5	14846.9	14743.1	14646.5	14560.6	14549.8	14589.2	14646.5	14678.6
4°	14922.2	14864.9	14646.5	14467.4	14331.4	14320.7	14478.2	14624.9	14685.8
5°	14950.8	14846.9	14524.7	14224.0	14045.0	14113.0	14335.0	14596.3	14707.3
6°	14911.4	14757.5	14338.6	13937.6	13733.5	13823.0	14148.8	14528.3	14693.0
7°	14811.2	14614.3	14098.7	13626.1	13375.5	13515.1	13930.4	14413.7	14639.3
8°	14624.9	14388.7	13794.4	13264.5	13017.5	13175.0	13661.9	14249.0	14510.4
9°	14381.5	14120.2	13493.7	12935.1	12670.2	12856.4	13382.7	14030.7	14331.4
10°	14091.5	13812.3	13160.7	12591.5	12351.6	12527.0	13081.9	13776.4	14087.9
11°	13751.4	13482.9	12827.7	12269.3	12040.1	12212.0	12781.2	13472.2	13808.7
12°	13382.7	13135.6	12487.7	11957.8	11743.0	11907.7	12459.0	13157.1	13490.1
13°	13013.9	12766.8	12158.3	11657.0	11460.1	11617.6	12143.9	12813.4	13146.3
14°	12616.5	12390.9	11828.9	11370.6	11191.6	11341.9	11821.7	12466.1	12781.2
15°	12204.8	12025.7	11513.8	11094.9	10926.7	11069.8	11513.8	12108.1	12412.4
16°	11818.1	11653.4	11209.5	10822.8	10683.3	10797.8	11202.4	11750.1	12040.1
17°	11424.3	11273.9	10905.2	10554.3	10429.0	10540.0	10883.7	11388.5	11649.8
18°	11030.5	10905.2	10572.3	10271.5	10160.5	10260.8	10568.7	11023.3	11259.6
19°	10665.3	10550.7	10267.9	10013.7	9913.5	10003.0	10293.0	10672.5	10908.7
20°	10289.4	10196.3	9949.3	9741.6	9648.5	9730.9	9956.4	10325.2	10532.8
21°	9927.8	9845.4	9630.6	9455.2	9380.0	9448.1	9655.7	9988.7	10171.2
22°	9551.9	9505.4	9312.0	9165.2	9115.1	9158.0	9347.8	9634.2	9806.1
23°	9183.1	9140.2	8993.4	8871.7	8828.7	8871.7	9040.0	9297.7	9451.7
24°	8810.8	8764.3	8656.9	8578.0	8542.3	8578.0	8721.3	8939.7	9086.5
25°	8384.8	8377.6	8302.4	8259.4	8241.6	8280.9	8381.2	8570.9	8692.6
26°	7976.6	7955.1	7933.6	7926.5	7930.1	7951.5	8033.9	8177.1	8273.8
27°	7475.4	7507.6	7539.8	7582.8	7597.1	7615.0	7654.4	7758.2	7829.8
28°	6995.6	7056.5	7135.3	7221.2	7260.6	7260.6	7264.1	7321.4	7382.3
29°	6519.5	6583.9	6709.3	6838.1	6891.8	6884.6	6856.0	6881.0	6916.9
30°	6021.8	6104.2	6272.5	6440.8	6519.5	6490.9	6437.2	6412.1	6433.6
31°	5535.0	5617.3	5803.5	5986.0	6089.8	6057.7	5964.6	5946.7	5957.4
32°	5069.5	5151.9	5323.7	5517.0	5635.2	5592.3	5495.5	5466.9	5470.5
33°	4618.4	4682.9	4840.4	5019.4	5116.1	5105.3	5026.5	4990.8	4994.3
34°	4192.4	4246.1	4364.2	4500.3	4593.3	4589.8	4532.5	4536.1	4546.8
35°	3812.9	3841.6	3898.8	3974.0	4031.3	4063.4	4070.6	4099.3	4135.1
37.5°	2882.1	2892.8	2824.8	2749.5	2735.2	2828.4	2989.5	3129.1	3182.8
40°	1997.7	1972.7	1886.7	1754.3	1714.9	1818.8	2022.8	2219.7	2291.3
42.5°	1242.4	1231.6	1177.9	1077.7	1041.8	1102.7	1256.6	1407.0	1478.6
45°	741.1	726.7	698.1	658.8	651.6	676.6	755.4	841.3	880.7
47.5°	426.0	422.5	404.5	390.3	386.7	404.5	440.4	490.5	501.2
50°	232.7	229.2	225.6	225.6	225.6	236.3	254.2	268.5	275.7
52.5°	114.6	118.2	114.6	118.2	121.8	128.9	125.3	139.6	139.6
55°	57.3	53.7	60.9	68.1	68.1	68.1	68.1	68.1	64.5
57.5°	42.9	46.5	39.4	42.9	39.4	39.4	35.8	39.4	42.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	28.6	25.1	28.6	32.2	35.8	32.2	25.1	28.6	32.2
62.5°	14.3	14.3	14.3	21.5	32.2	25.1	21.5	17.9	17.9
65°	21.5	14.3	17.9	21.5	17.9	17.9	14.3	17.9	14.3
67.5°	10.8	17.9	10.8	7.2	10.8	14.3	10.8	7.2	7.2
70°	0.0	3.6	3.6	10.8	10.8	10.8	10.8	7.2	7.2
72.5°	3.6	3.6	3.6	7.2	3.6	7.2	3.6	3.6	7.2
75°	0.0	0.0	3.6	3.6	0.0	3.6	0.0	0.0	0.0
77.5°	3.6	0.0	3.6	3.6	0.0	0.0	0.0	3.6	0.0
80°	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	3.6
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)