

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: P250193

Luminaire Tested: **LSR8B120D010 EC8B1209727 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250193
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 EC8B1209727 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8611.0 lumens
Efficiency: N/A
Efficacy: 72.8 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

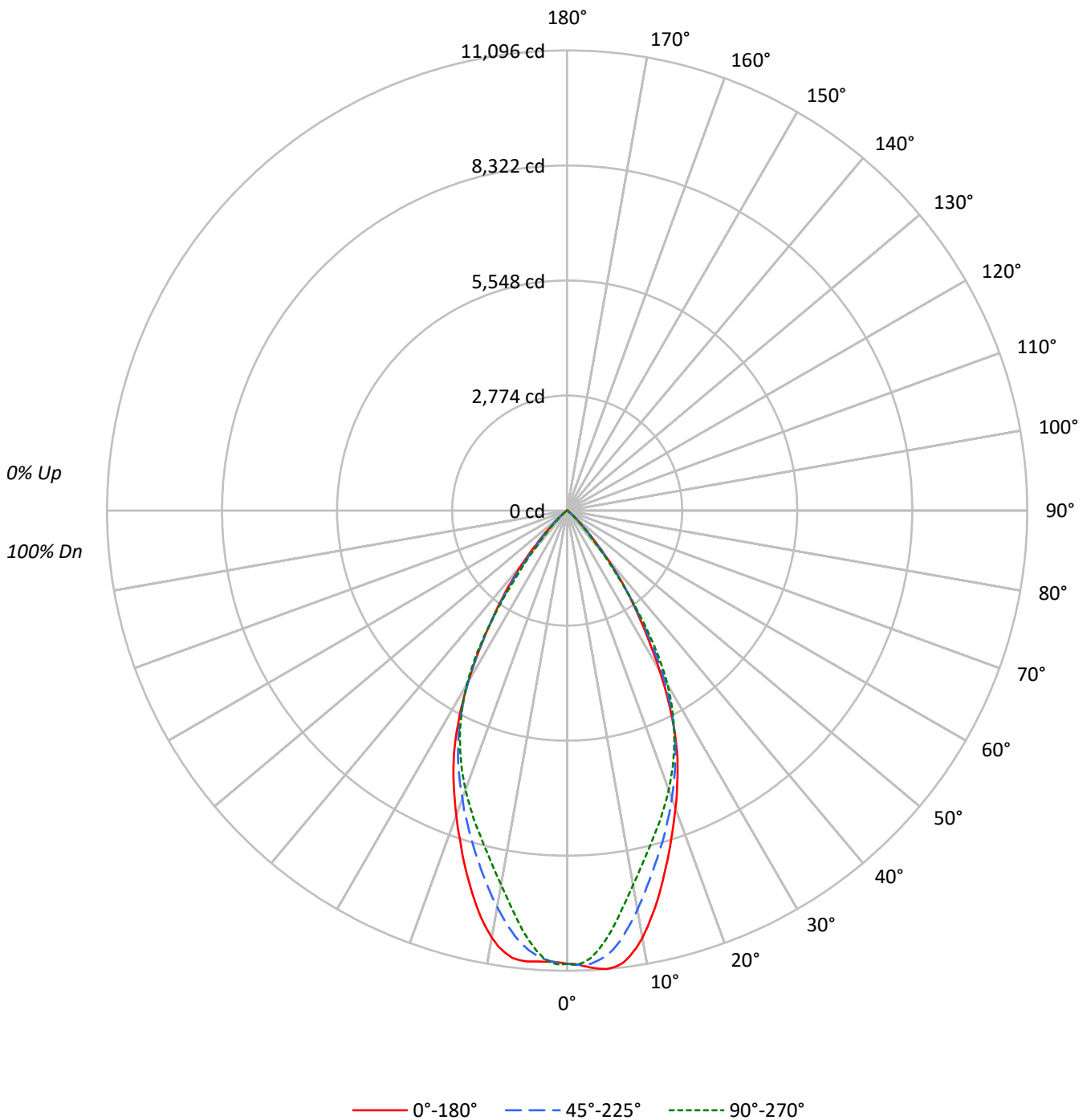
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	992.1	11.5
10°-20°	2399.4	27.9
20°-30°	2812.3	32.7
30°-40°	1850.3	21.5
40°-50°	482.8	5.6
50°-60°	59.4	0.7
60°-70°	12.3	0.1
70°-80°	2.3	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°	6203.8	72.0
0°-40°	8054.1	93.5
0°-60°	8596.3	99.8
0°-90°	8611.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8611.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10928	10928	10928	10928	10928	
5°	11096	10779	10423	10638	10915	###
15°	9058	8545	8109	8545	9212	2525
25°	6223	6162	6116	6220	6451	2805
35°	2830	2893	2992	3021	3069	1772
45°	550	518	484	561	654	493
55°	42	45	50	50	48	56
65°	16	13	13	11	11	11
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°	10928.1	10928.1	10928.1	10928.1	10928.1	10928.1	10928.1	10928.1	10928.1
1°	10936.1	10952.1	10957.3	10973.3	10949.4	10933.5	10912.2	10896.2	10898.9
2°	10983.9	10991.9	10962.6	10952.1	10909.5	10896.2	10880.3	10877.6	10880.3
3°	11034.4	11018.4	10941.4	10869.7	10805.9	10797.9	10827.2	10869.7	10893.5
4°	11074.3	11031.8	10869.7	10736.8	10635.8	10627.9	10744.8	10853.7	10898.9
5°	11095.5	11018.4	10779.3	10556.1	10423.3	10473.8	10638.5	10832.4	10914.8
6°	11066.3	10952.1	10641.2	10343.6	10192.1	10258.6	10500.4	10782.0	10904.2
7°	10991.9	10845.8	10463.2	10112.4	9926.4	10030.1	10338.3	10696.9	10864.4
8°	10853.7	10678.4	10237.3	9844.1	9660.7	9777.6	10139.0	10574.7	10768.7
9°	10673.0	10479.1	10014.1	9599.6	9403.0	9541.2	9931.8	10412.7	10635.8
10°	10457.8	10250.6	9767.0	9344.6	9166.6	9296.7	9708.6	10224.0	10455.2
11°	10205.4	10006.1	9519.9	9105.5	8935.4	9062.9	9485.4	9998.2	10247.9
12°	9931.8	9748.4	9267.5	8874.3	8714.9	8837.1	9246.3	9764.4	10011.5
13°	9658.1	9474.7	9023.1	8651.1	8504.9	8621.8	9012.4	9509.3	9756.4
14°	9363.2	9195.8	8778.6	8438.5	8305.7	8417.3	8773.3	9251.5	9485.4
15°	9057.6	8924.7	8544.8	8233.9	8109.1	8215.3	8544.8	8985.8	9211.7
16°	8770.7	8648.4	8319.0	8032.0	7928.4	8013.4	8313.7	8720.2	8935.4
17°	8478.4	8366.8	8093.1	7832.7	7739.8	7822.1	8077.2	8451.8	8645.8
18°	8186.1	8093.1	7846.1	7622.9	7540.5	7614.9	7843.4	8180.8	8356.1
19°	7915.1	7830.1	7620.2	7431.5	7357.2	7423.5	7638.8	7920.4	8095.8
20°	7636.1	7567.0	7383.7	7229.6	7160.5	7221.6	7389.0	7662.7	7816.8
21°	7367.8	7306.7	7147.2	7017.0	6961.2	7011.8	7165.8	7412.9	7548.4
22°	7088.8	7054.3	6910.8	6801.8	6764.7	6796.5	6937.3	7149.9	7277.5
23°	6815.1	6783.2	6674.3	6584.0	6552.1	6584.0	6708.9	6900.1	7014.4
24°	6538.8	6504.3	6424.6	6366.1	6339.5	6366.1	6472.4	6634.4	6743.4
25°	6222.7	6217.3	6161.5	6129.6	6116.4	6145.5	6220.0	6360.8	6451.1
26°	5919.7	5903.8	5887.8	5882.5	5885.2	5901.1	5962.2	6068.5	6140.3
27°	5547.8	5571.7	5595.6	5627.5	5638.1	5651.4	5680.6	5757.6	5810.8
28°	5191.7	5236.9	5295.3	5359.1	5388.4	5388.4	5391.0	5433.5	5478.7
29°	4838.4	4886.1	4979.2	5074.8	5114.7	5109.3	5088.1	5106.7	5133.3
30°	4469.0	4530.1	4655.0	4779.9	4838.4	4817.1	4777.2	4758.7	4774.6
31°	4107.7	4168.8	4307.0	4442.4	4519.5	4495.6	4426.5	4413.2	4421.2
32°	3762.3	3823.4	3950.9	4094.4	4182.1	4150.2	4078.4	4057.2	4059.8
33°	3427.5	3475.3	3592.2	3725.1	3796.8	3788.8	3730.4	3703.8	3706.4
34°	3111.3	3151.2	3238.8	3339.8	3408.9	3406.2	3363.7	3366.4	3374.4
35°	2829.7	2851.0	2893.4	2949.3	2991.8	3015.6	3021.0	3042.2	3068.8
37.5°	2138.9	2146.8	2096.4	2040.5	2029.9	2099.0	2218.6	2322.2	2362.1
40°	1482.6	1464.0	1400.2	1301.9	1272.7	1349.8	1501.2	1647.3	1700.4
42.5°	922.0	914.0	874.1	799.8	773.2	818.4	932.6	1044.2	1097.3
45°	550.0	539.3	518.1	488.9	483.6	502.2	560.6	624.4	653.6
47.5°	316.2	313.5	300.2	289.6	287.0	300.2	326.8	364.0	372.0
50°	172.7	170.1	167.4	167.4	167.4	175.3	188.7	199.3	204.6
52.5°	85.0	87.7	85.0	87.7	90.4	95.6	93.0	103.6	103.6
55°	42.5	39.9	45.2	50.5	50.5	50.5	50.5	50.5	47.8
57.5°	31.9	34.5	29.3	31.9	29.3	29.3	26.6	29.3	31.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	21.3	18.6	21.3	23.9	26.6	23.9	18.6	21.3	23.9
62.5°	10.6	10.6	10.6	15.9	23.9	18.6	15.9	13.3	13.3
65°	15.9	10.6	13.3	15.9	13.3	13.3	10.6	13.3	10.6
67.5°	8.0	13.3	8.0	5.3	8.0	10.6	8.0	5.3	5.3
70°	0.0	2.7	2.7	8.0	8.0	8.0	8.0	5.3	5.3
72.5°	2.7	2.7	2.7	5.3	2.7	5.3	2.7	2.7	5.3
75°	0.0	0.0	2.7	2.7	0.0	2.7	0.0	0.0	0.0
77.5°	2.7	0.0	2.7	2.7	0.0	0.0	0.0	2.7	0.0
80°	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	2.7
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)