

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: P250199

Luminaire Tested: **LSR8B100D010 EC8B1009730 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250199
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: LSR8B100D010 EC8B1009730 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: 8037.0 lumens
Efficiency: N/A
Efficacy: 75.6 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

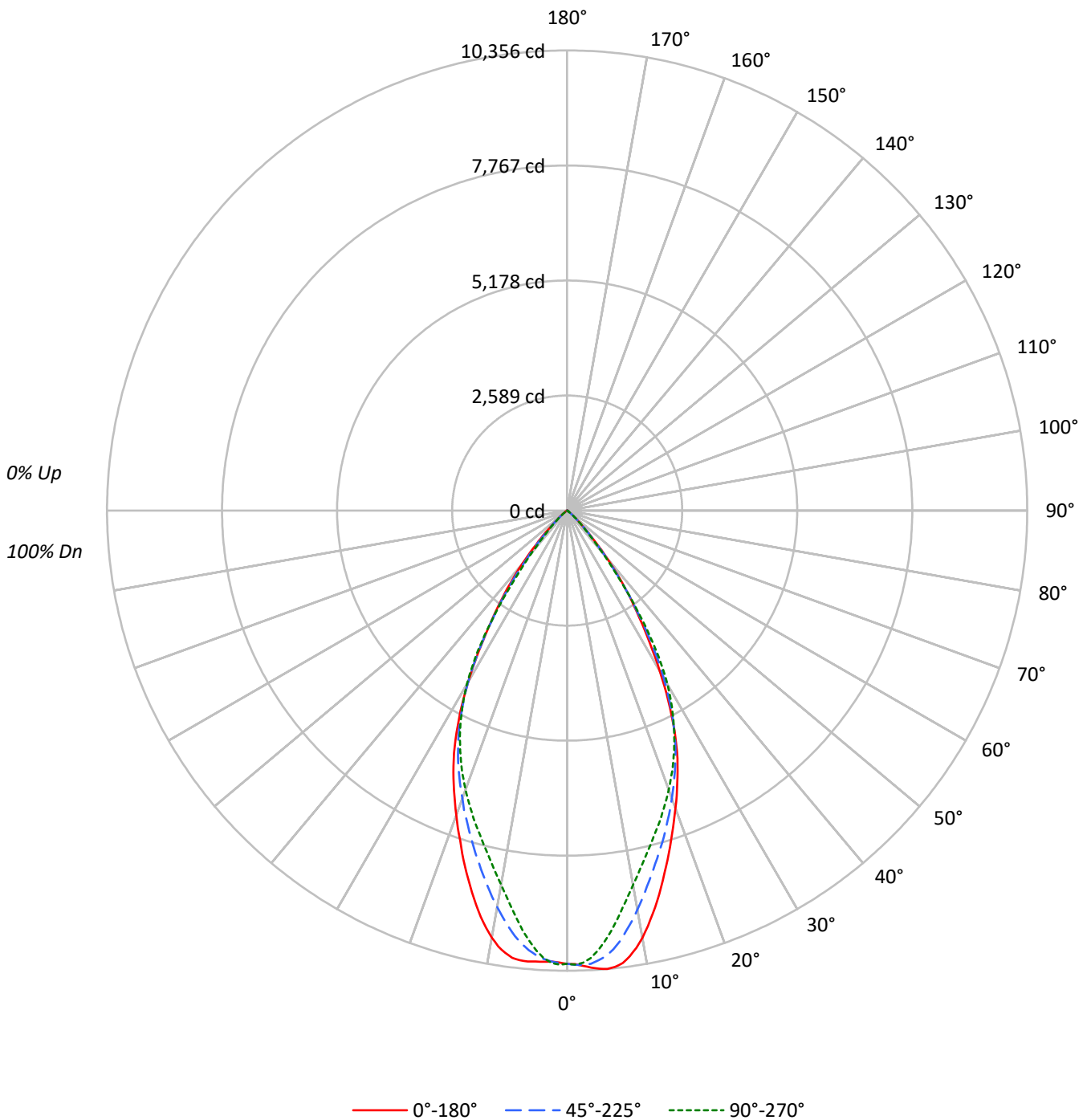
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	925.9	11.5
10°-20°	2239.5	27.9
20°-30°	2624.8	32.7
30°-40°	1727.0	21.5
40°-50°	450.7	5.6
50°-60°	55.4	0.7
60°-70°	11.5	0.1
70°-80°	2.2	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°	5790.2	72.0
0°-40°	7517.2	93.5
0°-60°	8023.3	99.8
0°-90°	8037.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8037.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10200	10200	10200	10200	10200	
5°	10356	10061	9728	9929	10187	970
15°	8454	7975	7568	7975	8598	2357
25°	5808	5751	5709	5805	6021	2618
35°	2641	2700	2792	2820	2864	1654
45°	513	484	451	523	610	460
55°	40	42	47	47	45	53
65°	15	12	12	10	10	10
75°	0	2	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°	10199.7	10199.7	10199.7	10199.7	10199.7	10199.7	10199.7	10199.7	10199.7
1°	10207.1	10222.0	10226.9	10241.8	10219.5	10204.6	10184.8	10169.9	10172.4
2°	10251.7	10259.2	10231.9	10222.0	10182.3	10169.9	10155.0	10152.5	10155.0
3°	10298.9	10284.0	10212.0	10145.1	10085.6	10078.1	10105.4	10145.1	10167.4
4°	10336.1	10296.4	10145.1	10021.1	9926.9	9919.5	10028.6	10130.2	10172.4
5°	10355.9	10284.0	10060.8	9852.5	9728.5	9775.6	9929.3	10110.4	10187.2
6°	10328.6	10222.0	9931.8	9654.1	9512.7	9574.7	9800.4	10063.3	10177.3
7°	10259.2	10122.8	9765.7	9438.3	9264.7	9361.5	9649.1	9983.9	10140.1
8°	10130.2	9966.5	9554.9	9187.9	9016.8	9125.9	9463.2	9869.8	10050.9
9°	9961.6	9780.6	9346.6	8959.7	8776.2	8905.2	9269.7	9718.6	9926.9
10°	9760.7	9567.3	9116.0	8721.7	8555.5	8677.0	9061.4	9542.5	9758.2
11°	9525.1	9339.1	8885.3	8498.5	8339.8	8458.8	8853.1	9331.7	9564.8
12°	9269.7	9098.6	8649.8	8282.7	8133.9	8248.0	8629.9	9113.5	9344.1
13°	9014.3	8843.2	8421.6	8074.4	7938.0	8047.1	8411.7	8875.4	9106.0
14°	8739.0	8582.8	8193.5	7876.0	7752.0	7856.2	8188.5	8634.8	8853.1
15°	8453.8	8329.8	7975.2	7685.1	7568.5	7667.7	7975.2	8386.9	8597.7
16°	8186.0	8071.9	7764.4	7496.6	7399.9	7479.2	7759.5	8138.9	8339.8
17°	7913.2	7809.1	7553.6	7310.6	7223.8	7300.7	7538.8	7888.4	8069.4
18°	7640.5	7553.6	7323.0	7114.7	7037.9	7107.3	7320.6	7635.5	7799.1
19°	7387.5	7308.1	7112.3	6936.2	6866.7	6928.7	7129.6	7392.5	7556.1
20°	7127.1	7062.6	6891.5	6747.7	6683.2	6740.2	6896.5	7151.9	7295.7
21°	6876.6	6819.6	6670.8	6549.3	6497.2	6544.4	6688.2	6918.8	7045.3
22°	6616.3	6584.0	6450.1	6348.4	6313.7	6343.5	6474.9	6673.3	6792.4
23°	6360.8	6331.1	6229.4	6145.1	6115.3	6145.1	6261.7	6440.2	6546.9
24°	6102.9	6070.7	5996.3	5941.7	5917.0	5941.7	6040.9	6192.2	6293.9
25°	5807.9	5802.9	5750.8	5721.0	5708.6	5735.9	5805.4	5936.8	6021.1
26°	5525.1	5510.2	5495.4	5490.4	5492.9	5507.7	5564.8	5664.0	5731.0
27°	5178.0	5200.3	5222.6	5252.3	5262.2	5274.7	5301.9	5373.8	5423.5
28°	4845.6	4887.8	4942.3	5001.9	5029.2	5029.2	5031.6	5071.3	5113.5
29°	4515.8	4560.4	4647.3	4736.5	4773.7	4768.7	4748.9	4766.3	4791.1
30°	4171.1	4228.2	4344.7	4461.3	4515.8	4496.0	4458.8	4441.4	4456.3
31°	3833.9	3890.9	4019.9	4146.3	4218.2	4195.9	4131.4	4119.1	4126.5
32°	3511.5	3568.5	3687.5	3821.4	3903.3	3873.6	3806.6	3786.7	3789.2
33°	3199.0	3243.7	3352.8	3476.8	3543.7	3536.3	3481.7	3456.9	3459.4
34°	2903.9	2941.1	3022.9	3117.2	3181.7	3179.2	3139.5	3142.0	3149.4
35°	2641.1	2660.9	2700.5	2752.7	2792.3	2814.6	2819.6	2839.4	2864.2
37.5°	1996.3	2003.7	1956.6	1904.5	1894.6	1959.1	2070.7	2167.4	2204.6
40°	1383.8	1366.4	1306.9	1215.1	1187.8	1259.8	1401.1	1537.5	1587.1
42.5°	860.5	853.1	815.9	746.5	721.6	763.8	870.4	974.6	1024.2
45°	513.3	503.4	483.5	456.3	451.3	468.7	523.2	582.8	610.1
47.5°	295.1	292.6	280.2	270.3	267.8	280.2	305.0	339.7	347.2
50°	161.2	158.7	156.2	156.2	156.2	163.6	176.1	186.0	191.0
52.5°	79.4	81.9	79.4	81.9	84.3	89.3	86.8	96.7	96.7
55°	39.7	37.2	42.2	47.1	47.1	47.1	47.1	47.1	44.7
57.5°	29.7	32.2	27.3	29.7	27.3	27.3	24.8	27.3	29.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	19.8	17.4	19.8	22.3	24.8	22.3	17.4	19.8	22.3
62.5°	9.9	9.9	9.9	14.9	22.3	17.4	14.9	12.4	12.4
65°	14.9	9.9	12.4	14.9	12.4	12.4	9.9	12.4	9.9
67.5°	7.5	12.4	7.5	5.0	7.5	9.9	7.5	5.0	5.0
70°	0.0	2.5	2.5	7.5	7.5	7.5	7.5	5.0	5.0
72.5°	2.5	2.5	2.5	5.0	2.5	5.0	2.5	2.5	5.0
75°	0.0	0.0	2.5	2.5	0.0	2.5	0.0	0.0	0.0
77.5°	2.5	0.0	2.5	2.5	0.0	0.0	0.0	2.5	0.0
80°	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	2.5
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)