

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: P247428

Luminaire Tested: **LSR8B100D010 EC8B1009730 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13927)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B1009730 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8329.0 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.12
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

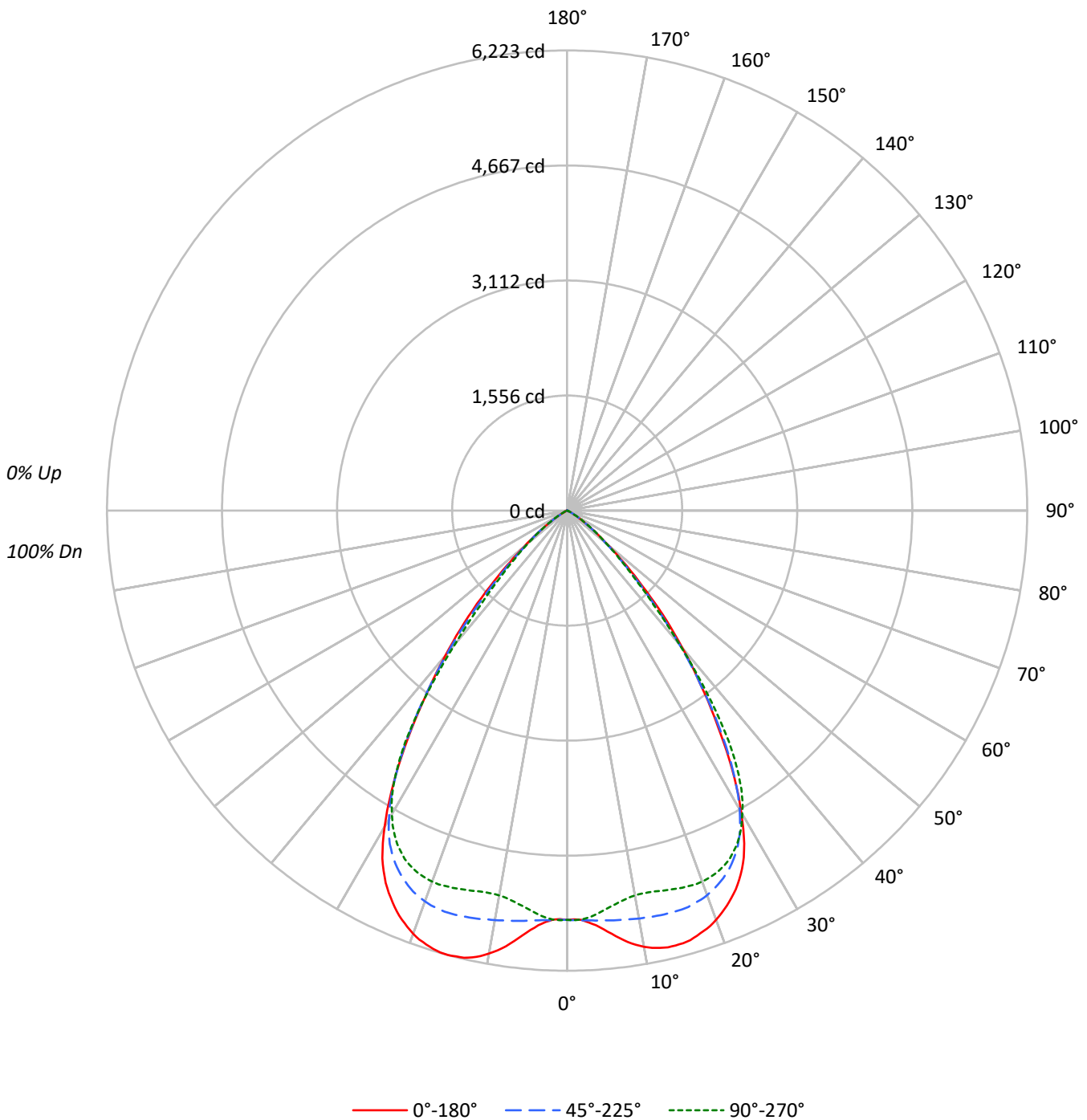
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	76
4	94	85	79	74	92	84	79	74	82	77	73	80	76	72	78	74	71	70
5	88	79	72	67	87	78	72	67	76	71	67	74	70	66	73	69	65	64
6	83	73	66	61	81	72	66	61	71	65	61	69	64	60	68	63	60	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55	50	47	45
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42

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°	533.6	6.4
10°-20°	1605.5	19.3
20°-30°	2443.7	29.3
30°-40°	2274.2	27.3
40°-50°	1106.8	13.3
50°-60°	315.4	3.8
60°-70°	41.2	0.5
70°-80°	6.5	0.1
80°-90°	2.0	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°	4582.9	55.0
0°-40°	6857.1	82.3
0°-60°	8279.3	99.4
0°-90°	8329.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8329.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5536	5536	5536	5536	5536	
5°	5684	5560	5438	5565	5694	554
15°	6056	5616	5310	5670	6223	1704
25°	5508	5268	5198	5383	5706	2500
35°	3549	3598	3815	3775	3747	2207
45°	1430	1324	1275	1428	1555	1130
55°	322	322	334	327	322	316
65°	21	26	28	26	24	40
75°	0	2	7	2	0	4
85°	0	2	2	5	0	1
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°	5536.3	5536.3	5536.3	5536.3	5536.3	5536.3	5536.3	5536.3	5536.3
1°	5529.2	5536.3	5541.0	5538.7	5541.0	5538.7	5534.0	5524.6	5524.6
2°	5538.7	5548.1	5545.7	5541.0	5534.0	5534.0	5548.1	5529.2	5534.0
3°	5576.3	5576.3	5548.1	5522.2	5512.8	5522.2	5545.7	5559.8	5571.6
4°	5623.3	5613.9	5557.5	5498.7	5479.8	5503.4	5555.2	5599.8	5623.3
5°	5684.5	5656.2	5559.8	5470.5	5437.5	5472.8	5564.6	5649.2	5693.9
6°	5755.1	5712.7	5573.9	5439.9	5397.6	5446.9	5578.7	5708.0	5776.2
7°	5825.6	5757.4	5581.0	5416.3	5362.2	5430.5	5590.4	5773.8	5863.2
8°	5891.5	5799.7	5588.1	5395.2	5329.3	5399.9	5599.8	5832.6	5950.2
9°	5945.6	5839.7	5592.7	5378.8	5301.1	5381.1	5611.6	5884.4	6023.1
10°	5990.2	5870.3	5602.2	5369.3	5284.7	5371.7	5623.3	5929.1	6084.3
11°	6025.5	5891.5	5604.5	5364.7	5277.6	5364.7	5632.7	5973.7	6136.1
12°	6046.6	5910.2	5611.6	5367.0	5279.9	5371.7	5646.8	5992.6	6178.4
13°	6060.8	5917.3	5616.2	5374.0	5284.7	5376.4	5656.2	6009.1	6206.6
14°	6060.8	5912.7	5616.2	5381.1	5298.8	5385.8	5663.3	6020.8	6213.6
15°	6056.1	5910.2	5616.2	5392.8	5310.5	5395.2	5670.4	6027.9	6223.0
16°	6042.0	5896.1	5613.9	5399.9	5322.3	5404.6	5672.7	6023.1	6216.1
17°	6013.7	5889.1	5604.5	5407.0	5334.1	5414.0	5672.7	6011.4	6199.5
18°	5976.1	5839.7	5581.0	5399.9	5336.4	5411.7	5658.6	5980.8	6169.0
19°	5943.2	5811.5	5564.6	5395.2	5345.8	5418.8	5649.2	5959.6	6136.1
20°	5891.5	5764.5	5536.3	5381.1	5338.8	5404.6	5625.7	5922.1	6091.4
21°	5828.0	5710.3	5496.3	5357.6	5327.0	5385.8	5592.7	5870.3	6030.2
22°	5764.5	5649.2	5454.0	5334.1	5308.2	5369.3	5557.5	5816.2	5966.7
23°	5689.1	5581.0	5399.9	5294.1	5279.9	5331.7	5508.1	5757.4	5891.5
24°	5604.5	5501.0	5341.1	5249.4	5244.7	5291.8	5451.7	5679.8	5802.1
25°	5508.1	5416.3	5268.2	5192.9	5197.7	5237.6	5383.4	5592.7	5705.7
26°	5392.8	5308.2	5183.5	5124.8	5131.8	5171.8	5305.8	5491.7	5599.8
27°	5263.5	5185.9	5084.8	5042.4	5061.3	5096.5	5211.8	5381.1	5468.1
28°	5101.2	5040.1	4967.2	4948.4	4971.9	5011.9	5108.3	5247.0	5324.7
29°	4913.1	4880.1	4823.7	4833.1	4866.0	4898.9	4978.9	5080.0	5141.2
30°	4710.8	4696.7	4663.8	4701.4	4739.0	4767.3	4821.4	4889.5	4936.6
31°	4503.9	4487.4	4492.0	4553.2	4609.7	4628.4	4659.0	4692.0	4727.3
32°	4271.0	4266.3	4285.1	4374.5	4447.4	4456.8	4459.1	4468.5	4487.4
33°	4033.5	4026.4	4064.1	4174.6	4256.9	4264.0	4245.1	4235.7	4249.8
34°	3786.5	3786.5	3835.9	3951.2	4047.6	4054.6	4017.0	4012.3	3998.1
35°	3549.0	3541.9	3598.3	3706.6	3814.7	3817.1	3774.7	3748.9	3746.6
37.5°	2961.0	2949.3	2968.0	3024.5	3104.4	3146.8	3142.1	3132.7	3125.6
40°	2424.8	2396.6	2358.9	2335.4	2358.9	2446.0	2521.2	2556.5	2563.5
42.5°	1919.2	1879.2	1799.2	1733.3	1742.8	1822.7	1937.9	2017.9	2057.9
45°	1429.9	1389.9	1324.1	1274.7	1274.7	1331.2	1427.6	1509.9	1554.6
47.5°	1020.7	994.9	957.2	936.0	950.1	973.7	1027.8	1089.0	1107.7
50°	703.2	696.1	675.0	675.0	689.1	707.9	717.3	747.9	755.0
52.5°	491.6	479.8	482.1	484.5	496.2	498.6	512.7	505.6	517.4
55°	322.2	322.2	322.2	329.2	334.0	334.0	326.9	322.2	322.2
57.5°	204.6	199.9	202.2	207.0	207.0	199.9	188.2	185.8	174.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	122.3	122.3	124.7	124.7	122.3	115.2	103.5	94.1	89.4
62.5°	63.5	65.8	65.8	77.6	65.8	58.8	54.1	42.3	40.0
65°	21.2	25.8	25.8	25.8	28.3	25.8	25.8	23.5	23.5
67.5°	14.1	16.5	16.5	18.8	18.8	18.8	18.8	23.5	16.5
70°	11.7	11.7	14.1	16.5	16.5	18.8	14.1	11.7	18.8
72.5°	7.1	9.4	7.1	11.7	9.4	9.4	9.4	9.4	9.4
75°	0.0	4.7	2.3	0.0	7.1	4.7	2.3	4.7	0.0
77.5°	2.3	2.3	2.3	2.3	4.7	4.7	4.7	4.7	2.3
80°	2.3	2.3	4.7	2.3	2.3	4.7	0.0	0.0	9.4
82.5°	2.3	2.3	2.3	2.3	2.3	2.3	0.0	2.3	2.3
85°	0.0	2.3	2.3	2.3	2.3	2.3	4.7	4.7	0.0
87.5°	0.0	2.3	0.0	2.3	0.0	0.0	0.0	4.7	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)