

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: P250198

Luminaire Tested: **LSR8B90D010 EC8B909730 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250198
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: LSR8B90D010 EC8B909730 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: 6966.0 lumens
Efficiency: N/A
Efficacy: 80.9 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

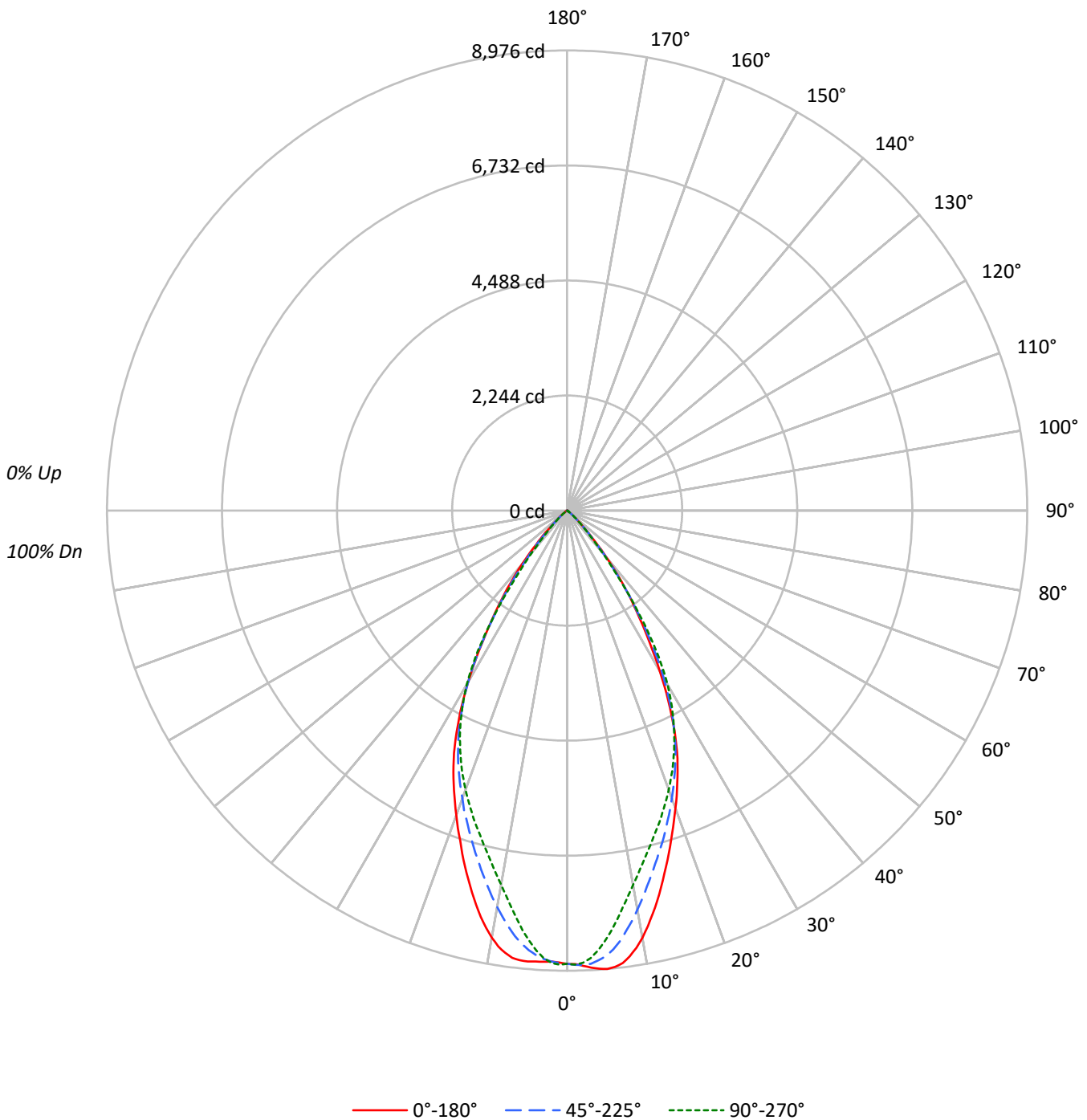
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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	106	106	106	102	102	102	100	100	100
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94	94	94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87	87	87
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81	81	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76	76	76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71	71	71
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66	66	66
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62	62	62
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58	58	58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55	55	55
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	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°	802.5	11.5
10°-20°	1941.1	27.9
20°-30°	2275.0	32.7
30°-40°	1496.8	21.5
40°-50°	390.6	5.6
50°-60°	48.0	0.7
60°-70°	10.0	0.1
70°-80°	1.9	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°	5018.6	72.0
0°-40°	6515.5	93.5
0°-60°	6954.1	99.8
0°-90°	6966.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6966.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8840	8840	8840	8840	8840	
5°	8976	8720	8432	8606	8830	841
15°	7327	6912	6560	6912	7452	2042
25°	5034	4984	4948	5032	5219	2269
35°	2289	2341	2420	2444	2483	1433
45°	445	419	391	454	529	399
55°	34	37	41	41	39	46
65°	13	11	11	9	9	9
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°	8840.5	8840.5	8840.5	8840.5	8840.5	8840.5	8840.5	8840.5	8840.5
1°	8846.9	8859.8	8864.1	8877.0	8857.7	8844.8	8827.6	8814.7	8816.8
2°	8885.6	8892.1	8868.4	8859.8	8825.4	8814.7	8801.8	8799.6	8801.8
3°	8926.5	8913.5	8851.2	8793.2	8741.6	8735.1	8758.8	8793.2	8812.5
4°	8958.7	8924.3	8793.2	8685.7	8604.0	8597.6	8692.2	8780.3	8816.8
5°	8975.9	8913.5	8720.1	8539.5	8432.1	8472.9	8606.2	8763.1	8829.7
6°	8952.2	8859.8	8608.3	8367.6	8245.1	8298.8	8494.4	8722.2	8821.1
7°	8892.1	8773.8	8464.3	8180.6	8030.1	8114.0	8363.3	8653.5	8788.9
8°	8780.3	8638.4	8281.6	7963.5	7815.2	7909.8	8202.1	8554.6	8711.5
9°	8634.1	8477.2	8101.1	7765.8	7606.7	7718.5	8034.4	8423.5	8604.0
10°	8460.0	8292.4	7901.2	7559.4	7415.4	7520.7	7853.9	8270.9	8457.9
11°	8255.8	8094.6	7701.3	7366.0	7228.4	7331.6	7673.4	8088.2	8290.2
12°	8034.4	7886.1	7497.1	7179.0	7050.0	7148.9	7479.9	7899.0	8098.9
13°	7813.0	7664.7	7299.4	6998.4	6880.2	6974.8	7290.7	7692.7	7892.6
14°	7574.5	7439.1	7101.6	6826.5	6719.0	6809.3	7097.3	7484.2	7673.4
15°	7327.3	7219.8	6912.4	6661.0	6560.0	6645.9	6912.4	7269.2	7451.9
16°	7095.2	6996.3	6729.7	6497.6	6413.8	6482.6	6725.5	7054.3	7228.4
17°	6858.7	6768.5	6547.0	6336.4	6261.2	6327.8	6534.2	6837.2	6994.1
18°	6622.3	6547.0	6347.2	6166.6	6100.0	6160.2	6345.0	6618.0	6759.8
19°	6403.0	6334.3	6164.5	6011.9	5951.7	6005.4	6179.5	6407.4	6549.2
20°	6177.4	6121.5	5973.2	5848.5	5792.6	5842.0	5977.5	6198.9	6323.5
21°	5960.3	5910.8	5781.9	5676.5	5631.4	5672.3	5796.9	5996.8	6106.4
22°	5734.6	5706.7	5590.6	5502.5	5472.4	5498.1	5612.1	5784.0	5887.2
23°	5513.2	5487.4	5399.3	5326.2	5300.4	5326.2	5427.2	5582.0	5674.4
24°	5289.7	5261.7	5197.3	5149.9	5128.5	5149.9	5235.9	5367.0	5455.2
25°	5033.9	5029.6	4984.5	4958.7	4947.9	4971.5	5031.8	5145.7	5218.7
26°	4788.8	4775.9	4763.1	4758.7	4760.9	4773.8	4823.2	4909.2	4967.3
27°	4487.9	4507.3	4526.6	4552.4	4561.0	4571.8	4595.4	4657.7	4700.7
28°	4199.9	4236.5	4283.7	4335.3	4359.0	4359.0	4361.1	4395.5	4432.0
29°	3914.1	3952.7	4028.0	4105.3	4137.6	4133.3	4116.1	4131.1	4152.6
30°	3615.3	3664.7	3765.8	3866.8	3914.1	3896.9	3864.6	3849.6	3862.5
31°	3323.0	3372.4	3484.2	3593.8	3656.1	3636.8	3580.9	3570.2	3576.6
32°	3043.6	3093.0	3196.1	3312.2	3383.1	3357.4	3299.3	3282.1	3284.3
33°	2772.7	2811.4	2906.0	3013.5	3071.5	3065.0	3017.7	2996.3	2998.4
34°	2517.0	2549.2	2620.1	2701.8	2757.7	2755.5	2721.1	2723.3	2729.7
35°	2289.1	2306.3	2340.7	2385.8	2420.2	2439.5	2443.9	2461.0	2482.6
37.5°	1730.3	1736.7	1695.9	1650.7	1642.1	1698.0	1794.8	1878.6	1910.8
40°	1199.4	1184.3	1132.7	1053.2	1029.5	1091.9	1214.4	1332.6	1375.6
42.5°	745.9	739.4	707.2	647.0	625.5	662.0	754.4	844.7	887.7
45°	444.9	436.3	419.1	395.5	391.2	406.2	453.5	505.1	528.8
47.5°	255.8	253.7	242.9	234.3	232.1	242.9	264.4	294.5	300.9
50°	139.7	137.6	135.4	135.4	135.4	141.8	152.6	161.2	165.5
52.5°	68.8	70.9	68.8	70.9	73.1	77.4	75.2	83.8	83.8
55°	34.4	32.2	36.6	40.9	40.9	40.9	40.9	40.9	38.7
57.5°	25.8	27.9	23.7	25.8	23.7	23.7	21.5	23.7	25.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	17.2	15.0	17.2	19.4	21.5	19.4	15.0	17.2	19.4
62.5°	8.6	8.6	8.6	12.9	19.4	15.0	12.9	10.7	10.7
65°	12.9	8.6	10.7	12.9	10.7	10.7	8.6	10.7	8.6
67.5°	6.5	10.7	6.5	4.3	6.5	8.6	6.5	4.3	4.3
70°	0.0	2.2	2.2	6.5	6.5	6.5	6.5	4.3	4.3
72.5°	2.2	2.2	2.2	4.3	2.2	4.3	2.2	2.2	4.3
75°	0.0	0.0	2.2	2.2	0.0	2.2	0.0	0.0	0.0
77.5°	2.2	0.0	2.2	2.2	0.0	0.0	0.0	2.2	0.0
80°	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	2.2
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)