

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: P250191

Luminaire Tested: **LSR8B90D010 EC8B90927 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250191
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 EC8B90927 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: 7407.0 lumens
Efficiency: N/A
Efficacy: 86.0 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

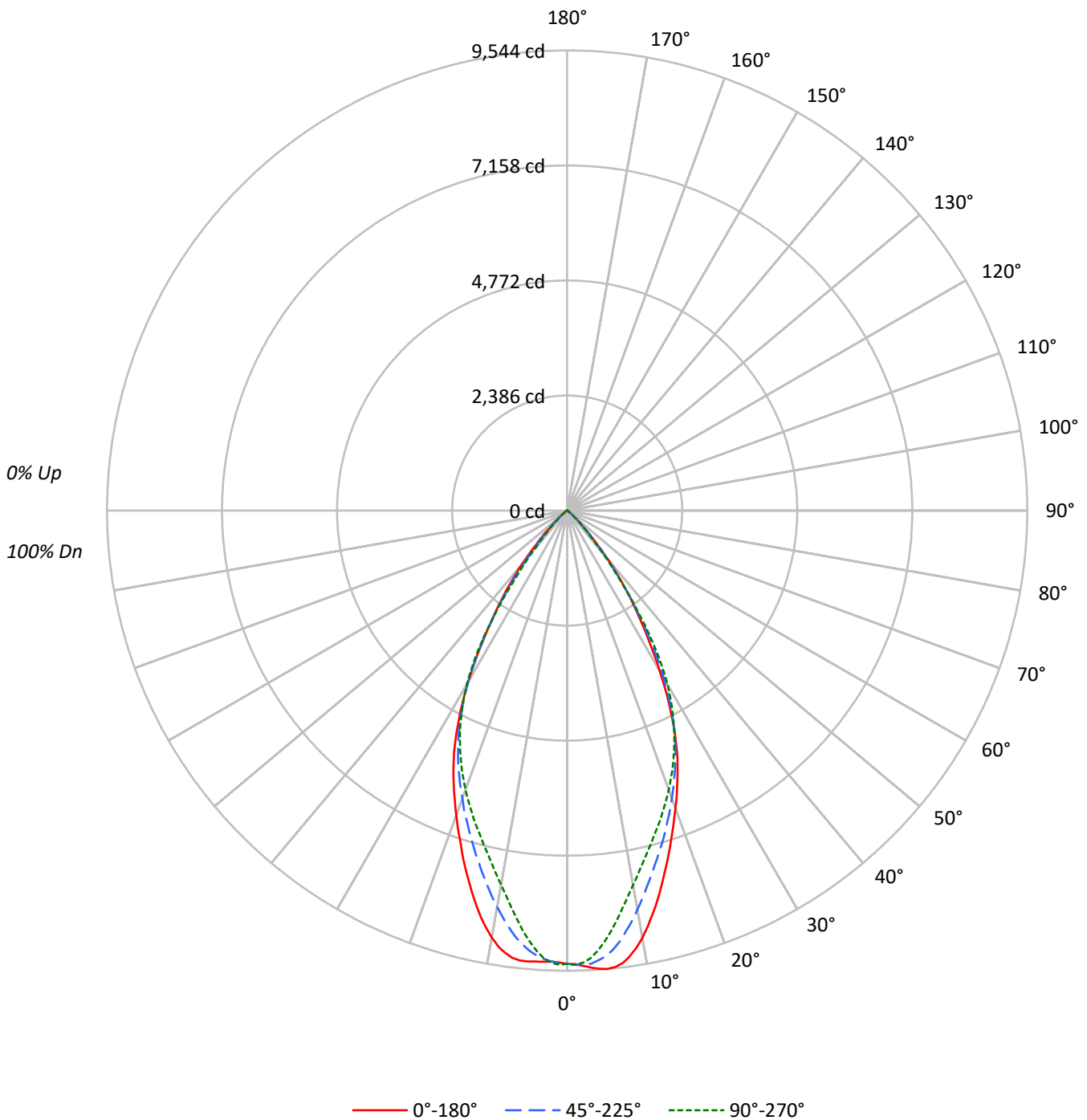
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	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°	853.4	11.5
10°-20°	2064.0	27.9
20°-30°	2419.0	32.7
30°-40°	1591.6	21.5
40°-50°	415.3	5.6
50°-60°	51.1	0.7
60°-70°	10.6	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°	5336.3	72.0
0°-40°	6928.0	93.5
0°-60°	7394.4	99.8
0°-90°	7407.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7407.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9400	9400	9400	9400	9400	
5°	9544	9272	8966	9151	9389	894
15°	7791	7350	6975	7350	7924	2172
25°	5353	5300	5261	5350	5549	2413
35°	2434	2489	2573	2598	2640	1524
45°	473	446	416	482	562	424
55°	37	39	43	43	41	48
65°	14	11	11	9	9	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°	9400.2	9400.2	9400.2	9400.2	9400.2	9400.2	9400.2	9400.2	9400.2
1°	9406.9	9420.8	9425.2	9439.0	9418.4	9404.8	9386.4	9372.7	9375.0
2°	9448.1	9454.9	9429.9	9420.8	9384.2	9372.7	9359.0	9356.7	9359.0
3°	9491.6	9477.8	9411.5	9349.9	9295.0	9288.1	9313.3	9349.9	9370.4
4°	9525.8	9489.3	9349.9	9235.6	9148.7	9141.9	9242.4	9336.2	9375.0
5°	9544.2	9477.8	9272.1	9080.2	8965.9	9009.3	9151.0	9317.8	9388.7
6°	9519.0	9420.8	9153.3	8897.4	8767.0	8824.2	9032.2	9274.4	9379.6
7°	9454.9	9329.3	9000.2	8698.5	8538.5	8627.6	8892.8	9201.3	9345.3
8°	9336.2	9185.3	8805.9	8467.6	8309.9	8410.5	8721.3	9096.2	9263.0
9°	9180.7	9013.8	8613.9	8257.4	8088.3	8207.1	8543.1	8956.7	9148.7
10°	8995.6	8817.3	8401.4	8038.0	7884.9	7996.8	8351.1	8794.5	8993.4
11°	8778.5	8607.0	8188.9	7832.4	7686.0	7795.8	8159.2	8600.3	8815.1
12°	8543.1	8385.4	7971.8	7633.5	7496.3	7601.5	7953.4	8399.1	8611.6
13°	8307.7	8150.0	7761.5	7441.5	7315.8	7416.3	7752.3	8179.8	8392.2
14°	8054.0	7910.0	7551.2	7258.6	7144.4	7240.4	7546.6	7958.0	8159.2
15°	7791.2	7676.9	7350.1	7082.7	6975.2	7066.7	7350.1	7729.4	7923.7
16°	7544.4	7439.2	7155.8	6909.0	6819.9	6893.0	7151.3	7500.9	7686.0
17°	7292.9	7197.0	6961.5	6737.5	6657.5	6728.4	6947.8	7270.1	7436.9
18°	7041.5	6961.5	6749.0	6557.1	6486.2	6550.2	6746.7	7037.0	7187.7
19°	6808.4	6735.3	6554.7	6392.5	6328.5	6385.6	6570.8	6813.0	6963.9
20°	6568.4	6509.0	6351.3	6218.8	6159.4	6211.9	6355.9	6591.3	6723.9
21°	6337.6	6285.0	6147.9	6035.8	5987.9	6031.3	6163.9	6376.5	6493.0
22°	6097.6	6067.9	5944.5	5850.8	5818.8	5846.2	5967.3	6150.2	6260.0
23°	5862.3	5834.8	5741.1	5663.4	5635.9	5663.4	5770.8	5935.4	6033.7
24°	5624.6	5594.8	5526.3	5475.9	5453.1	5475.9	5567.4	5706.8	5800.5
25°	5352.6	5348.0	5300.0	5272.5	5261.2	5286.3	5350.3	5471.4	5549.1
26°	5092.0	5078.2	5064.6	5060.0	5062.3	5076.0	5128.5	5220.0	5281.8
27°	4772.0	4792.6	4813.2	4840.7	4849.8	4861.2	4886.3	4952.6	4998.4
28°	4465.8	4504.6	4554.9	4609.8	4635.0	4635.0	4637.1	4673.8	4712.6
29°	4161.8	4203.0	4283.0	4365.2	4399.5	4394.9	4376.7	4392.7	4415.5
30°	3844.1	3896.8	4004.1	4111.5	4161.8	4143.6	4109.3	4093.3	4107.0
31°	3533.4	3585.9	3704.7	3821.3	3887.6	3867.1	3807.6	3796.2	3803.0
32°	3236.3	3288.8	3398.5	3521.9	3597.3	3570.0	3508.2	3489.9	3492.2
33°	2948.3	2989.4	3089.9	3204.2	3266.0	3259.0	3208.8	3186.0	3188.2
34°	2676.3	2710.6	2786.0	2872.9	2932.2	2930.0	2893.4	2895.6	2902.5
35°	2434.0	2452.3	2488.8	2536.9	2573.4	2594.0	2598.5	2616.9	2639.7
37.5°	1839.8	1846.7	1803.3	1755.2	1746.1	1805.5	1908.3	1997.6	2031.8
40°	1275.3	1259.3	1204.4	1119.9	1094.7	1161.0	1291.3	1417.0	1462.7
42.5°	793.1	786.2	751.9	687.9	665.1	703.9	802.2	898.2	943.9
45°	473.1	464.0	445.6	420.5	415.9	431.9	482.2	537.1	562.3
47.5°	271.9	269.7	258.3	249.1	246.8	258.3	281.1	313.1	320.0
50°	148.5	146.2	144.0	144.0	144.0	150.9	162.3	171.5	176.0
52.5°	73.1	75.5	73.1	75.5	77.7	82.2	80.0	89.1	89.1
55°	36.6	34.3	38.8	43.4	43.4	43.4	43.4	43.4	41.2
57.5°	27.4	29.7	25.2	27.4	25.2	25.2	22.8	25.2	27.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	18.3	16.0	18.3	20.6	22.8	20.6	16.0	18.3	20.6
62.5°	9.1	9.1	9.1	13.7	20.6	16.0	13.7	11.4	11.4
65°	13.7	9.1	11.4	13.7	11.4	11.4	9.1	11.4	9.1
67.5°	6.9	11.4	6.9	4.6	6.9	9.1	6.9	4.6	4.6
70°	0.0	2.2	2.2	6.9	6.9	6.9	6.9	4.6	4.6
72.5°	2.2	2.2	2.2	4.6	2.2	4.6	2.2	2.2	4.6
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)