

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: P250128

Luminaire Tested: **LSR8B90D010 EC8B90830 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250128
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 EC8B90830 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9093.0 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

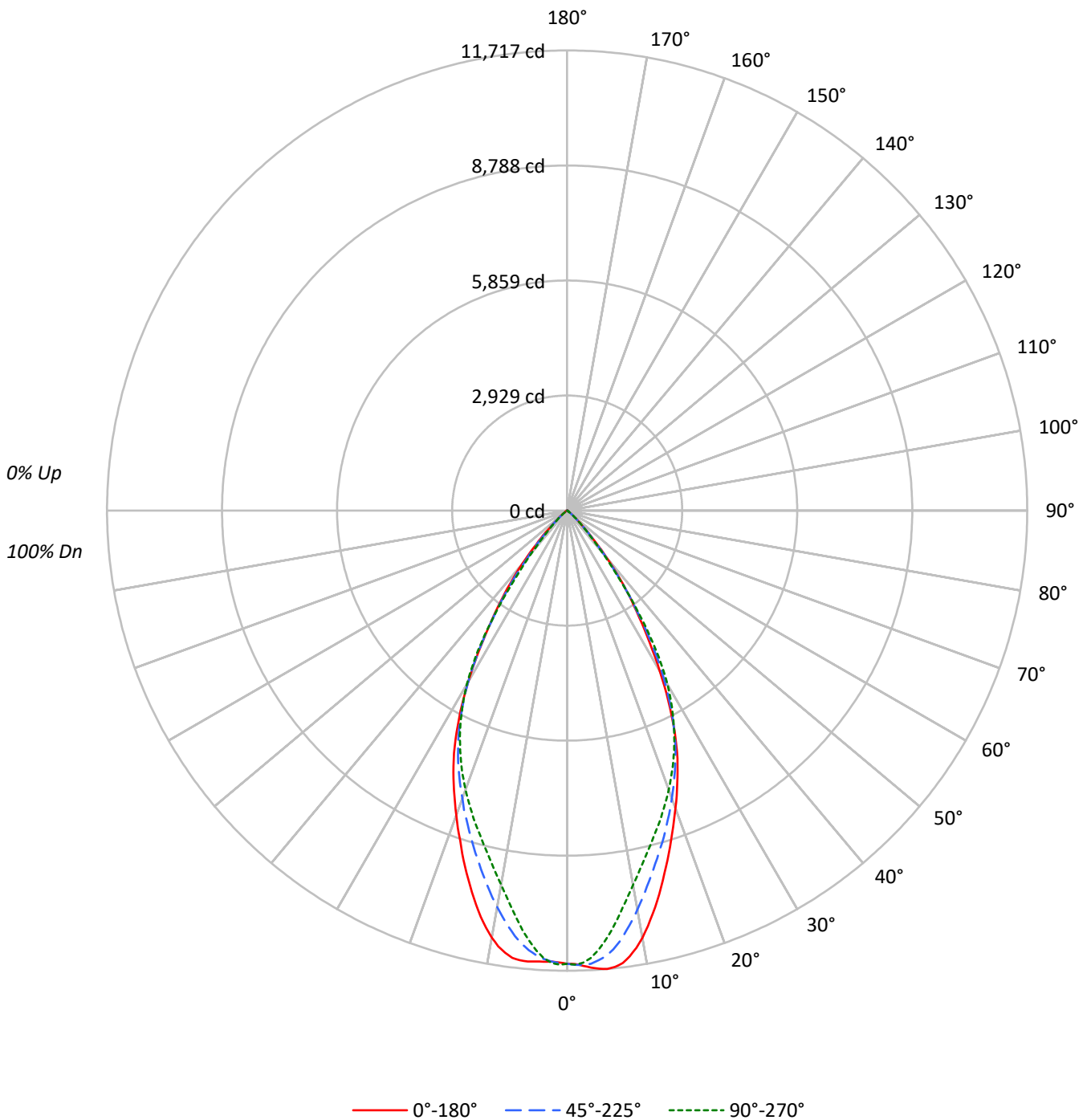
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	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	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	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	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	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	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	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	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	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	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	52	52		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	355845	355845	355845
5°	362677	340706	356771
10°	345785	303091	345697
15°	305341	273366	310535
20°	264610	248126	270867
25°	223572	219752	231779
30°	168035	181922	179522
35°	112485	118926	121990
40°	63022	54097	72280
45°	25328	22267	30099
50°	8745	8482	10362
55°	2414	2865	2715
60°	1381	1733	1560
65°	1226	1022	817
70°	0	757	505
75°	0	0	0
80°	0	0	497
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1047.6	11.5
10°-20°	2533.7	27.9
20°-30°	2969.7	32.7
30°-40°	1953.9	21.5
40°-50°	509.9	5.6
50°-60°	62.7	0.7
60°-70°	13.0	0.1
70°-80°	2.4	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°	6551.0	72.0
0°-40°	8504.9	93.5
0°-60°	9077.5	99.8
0°-90°	9093.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9093.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11540	11540	11540	11540	11540	
5°	11717	11383	11007	11234	11526	###
15°	9565	9023	8563	9023	9727	2666
25°	6571	6506	6459	6568	6812	2962
35°	2988	3055	3159	3190	3241	1871
45°	581	547	511	592	690	521
55°	45	48	53	53	50	59
65°	17	14	14	11	11	12
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°	11539.8	11539.8	11539.8	11539.8	11539.8	11539.8	11539.8	11539.8	11539.8
1°	11548.2	11565.1	11570.7	11587.5	11562.3	11545.5	11523.0	11506.1	11508.9
2°	11598.7	11607.2	11576.3	11565.1	11520.2	11506.1	11489.3	11486.5	11489.3
3°	11652.1	11635.2	11553.8	11478.1	11410.8	11402.3	11433.2	11478.1	11503.3
4°	11694.2	11649.3	11478.1	11337.8	11231.2	11222.8	11346.2	11461.2	11508.9
5°	11716.6	11635.2	11382.7	11147.0	11006.8	11060.0	11234.0	11438.8	11525.8
6°	11685.7	11565.1	11236.8	10922.6	10762.6	10832.8	11088.1	11385.5	11514.6
7°	11607.2	11452.8	11048.8	10678.5	10482.1	10591.5	10917.0	11295.7	11472.5
8°	11461.2	11276.1	10810.3	10395.1	10201.5	10324.9	10706.5	11166.6	11371.5
9°	11270.4	11065.7	10574.7	10137.0	9929.4	10075.2	10487.7	10995.5	11231.2
10°	11043.2	10824.4	10313.7	9867.6	9679.7	9817.1	10252.0	10796.3	11040.4
11°	10776.6	10566.2	10052.8	9615.1	9435.5	9570.2	10016.3	10557.8	10821.5
12°	10487.7	10294.1	9786.3	9371.0	9202.7	9331.7	9763.8	10310.9	10571.9
13°	10198.7	10005.1	9528.2	9135.3	8981.0	9104.4	9516.9	10041.6	10302.5
14°	9887.3	9710.5	9270.0	8910.9	8770.6	8888.4	9264.4	9769.4	10016.3
15°	9564.6	9424.3	9023.1	8694.8	8563.0	8675.2	9023.1	9488.8	9727.3
16°	9261.6	9132.5	8784.6	8481.6	8372.2	8461.9	8779.0	9208.3	9435.5
17°	8952.9	8835.1	8546.1	8271.2	8173.0	8260.0	8529.3	8924.9	9129.7
18°	8644.4	8546.1	8285.2	8049.6	7962.6	8041.1	8282.4	8638.7	8823.9
19°	8358.1	8268.4	8046.7	7847.5	7769.0	7839.1	8066.4	8363.8	8548.9
20°	8063.6	7990.6	7797.0	7634.3	7561.3	7625.9	7802.6	8091.6	8254.3
21°	7780.2	7715.6	7547.3	7409.8	7350.9	7404.2	7566.9	7827.9	7971.0
22°	7485.6	7449.1	7297.6	7182.6	7143.3	7176.9	7325.6	7550.1	7684.8
23°	7196.6	7162.9	7047.9	6952.5	6918.8	6952.5	7084.4	7286.4	7407.1
24°	6904.8	6868.4	6784.2	6722.4	6694.4	6722.4	6834.7	7005.8	7120.9
25°	6571.0	6565.3	6506.4	6472.7	6458.7	6489.5	6568.1	6716.8	6812.2
26°	6251.1	6234.2	6217.4	6211.8	6214.6	6231.4	6296.0	6408.2	6484.0
27°	5858.3	5883.6	5908.8	5942.5	5953.7	5967.7	5998.6	6079.9	6136.1
28°	5482.3	5530.0	5591.7	5659.1	5690.0	5690.0	5692.7	5737.6	5785.3
29°	5109.2	5159.6	5257.9	5358.9	5401.0	5395.3	5372.9	5392.5	5420.6
30°	4719.2	4783.7	4915.6	5047.5	5109.2	5086.7	5044.7	5025.0	5041.8
31°	4337.6	4402.2	4548.0	4691.1	4772.5	4747.3	4674.3	4660.3	4668.7
32°	3972.9	4037.4	4172.0	4323.5	4416.2	4382.5	4306.7	4284.3	4287.1
33°	3619.3	3669.9	3793.3	3933.6	4009.3	4000.9	3939.2	3911.2	3913.9
34°	3285.5	3327.6	3420.1	3526.8	3599.7	3596.9	3552.0	3554.8	3563.2
35°	2988.1	3010.5	3055.4	3114.3	3159.2	3184.4	3190.1	3212.5	3240.6
37.5°	2258.6	2267.0	2213.7	2154.7	2143.5	2216.5	2342.8	2452.2	2494.3
40°	1565.6	1545.9	1478.6	1374.8	1343.9	1425.3	1585.2	1739.5	1795.6
42.5°	973.6	965.2	923.1	844.5	816.5	864.2	984.8	1102.7	1158.8
45°	580.8	569.5	547.1	516.3	510.6	530.3	592.0	659.3	690.2
47.5°	333.8	331.1	317.0	305.8	303.0	317.0	345.1	384.4	392.8
50°	182.3	179.6	176.8	176.8	176.8	185.2	199.2	210.4	216.0
52.5°	89.8	92.6	89.8	92.6	95.4	101.0	98.2	109.4	109.4
55°	44.9	42.1	47.7	53.3	53.3	53.3	53.3	53.3	50.5
57.5°	33.6	36.5	30.9	33.6	30.9	30.9	28.1	30.9	33.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	22.4	19.6	22.4	25.3	28.1	25.3	19.6	22.4	25.3
62.5°	11.2	11.2	11.2	16.8	25.3	19.6	16.8	14.0	14.0
65°	16.8	11.2	14.0	16.8	14.0	14.0	11.2	14.0	11.2
67.5°	8.4	14.0	8.4	5.6	8.4	11.2	8.4	5.6	5.6
70°	0.0	2.8	2.8	8.4	8.4	8.4	8.4	5.6	5.6
72.5°	2.8	2.8	2.8	5.6	2.8	5.6	2.8	2.8	5.6
75°	0.0	0.0	2.8	2.8	0.0	2.8	0.0	0.0	0.0
77.5°	2.8	0.0	2.8	2.8	0.0	0.0	0.0	2.8	0.0
80°	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	2.8
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)