

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: P247427

Luminaire Tested: **LSR8B90D010 EC8B909730 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247427
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: LSR8B90D010 EC8B909730 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: 7219.0 lumens
Efficiency: N/A
Efficacy: 83.8 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

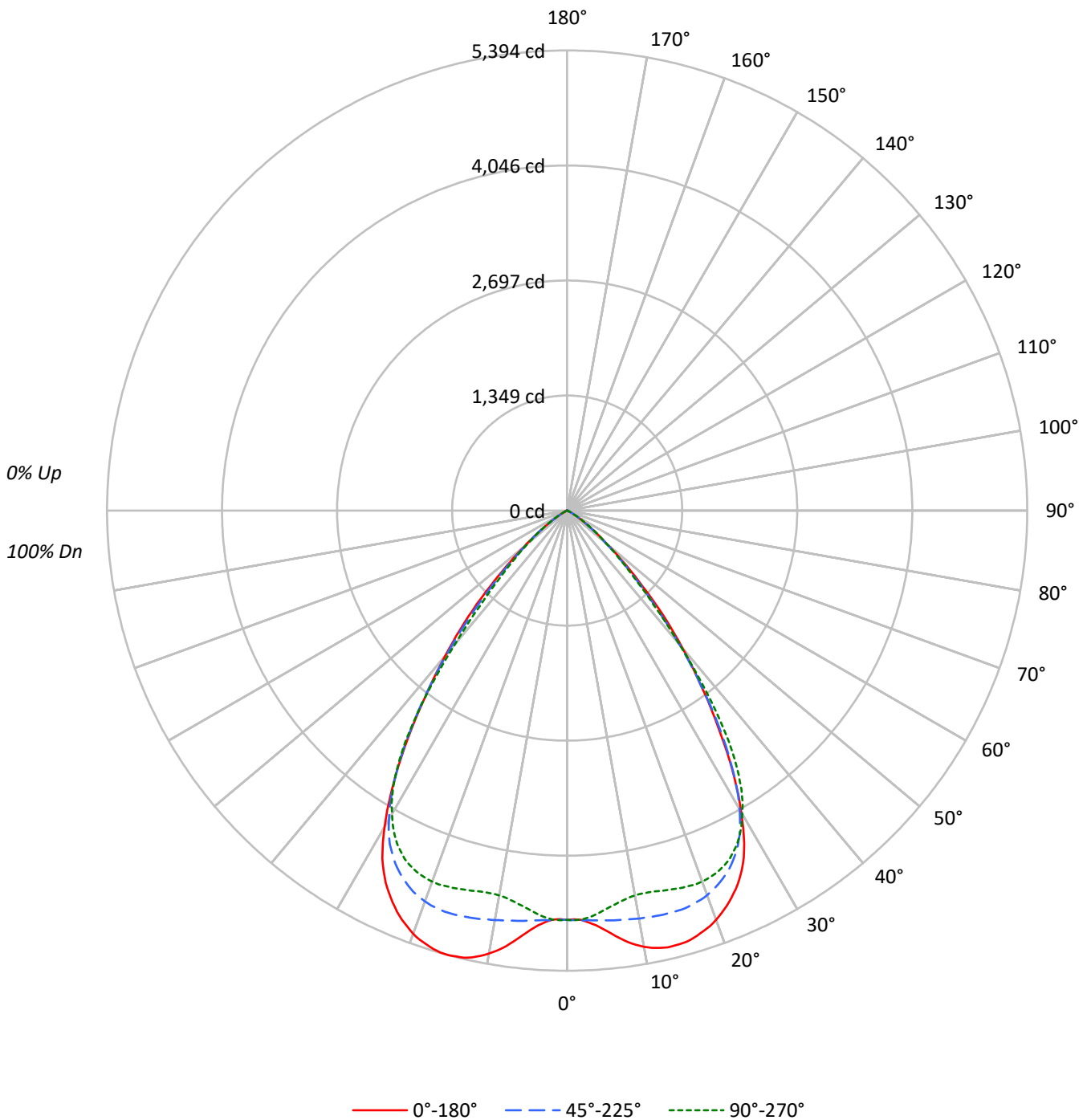
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	462.5	6.4
10°-20°	1391.6	19.3
20°-30°	2118.0	29.3
30°-40°	1971.1	27.3
40°-50°	959.3	13.3
50°-60°	273.4	3.8
60°-70°	35.7	0.5
70°-80°	5.6	0.1
80°-90°	1.7	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°	3972.1	55.0
0°-40°	5943.2	82.3
0°-60°	7175.9	99.4
0°-90°	7219.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7219.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4798	4798	4798	4798	4798	
5°	4927	4819	4713	4823	4935	480
15°	5249	4868	4603	4915	5394	1477
25°	4774	4566	4505	4666	4945	2167
35°	3076	3119	3306	3272	3247	1913
45°	1239	1148	1105	1237	1347	980
55°	279	279	290	283	279	274
65°	18	22	24	22	20	35
75°	0	2	6	2	0	4
85°	0	2	2	4	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°	4798.5	4798.5	4798.5	4798.5	4798.5	4798.5	4798.5	4798.5	4798.5
1°	4792.3	4798.5	4802.6	4800.6	4802.6	4800.6	4796.5	4788.3	4788.3
2°	4800.6	4808.7	4806.6	4802.6	4796.5	4796.5	4808.7	4792.3	4796.5
3°	4833.1	4833.1	4808.7	4786.3	4778.1	4786.3	4806.6	4818.9	4829.1
4°	4873.9	4865.8	4816.8	4765.9	4749.6	4769.9	4814.8	4853.5	4873.9
5°	4926.9	4902.4	4818.9	4741.4	4712.9	4743.4	4823.0	4896.3	4935.1
6°	4988.1	4951.3	4831.1	4714.9	4678.2	4721.0	4835.2	4947.3	5006.4
7°	5049.3	4990.1	4837.2	4694.5	4647.6	4706.8	4845.4	5004.4	5081.8
8°	5106.3	5026.8	4843.4	4676.2	4619.1	4680.2	4853.5	5055.3	5157.2
9°	5153.2	5061.4	4847.4	4662.0	4594.7	4664.0	4863.7	5100.2	5220.4
10°	5191.9	5087.9	4855.6	4653.7	4580.4	4655.8	4873.9	5139.0	5273.5
11°	5222.5	5106.3	4857.6	4649.7	4574.3	4649.7	4882.0	5177.6	5318.3
12°	5240.8	5122.6	4863.7	4651.7	4576.3	4655.8	4894.3	5194.0	5355.0
13°	5253.1	5128.7	4867.8	4657.8	4580.4	4659.9	4902.4	5208.3	5379.4
14°	5253.1	5124.7	4867.8	4664.0	4592.7	4668.0	4908.6	5218.4	5385.5
15°	5249.0	5122.6	4867.8	4674.1	4602.8	4676.2	4914.7	5224.5	5393.7
16°	5236.8	5110.3	4865.8	4680.2	4613.0	4684.4	4916.7	5220.4	5387.6
17°	5212.3	5104.3	4857.6	4686.4	4623.2	4692.5	4916.7	5210.3	5373.3
18°	5179.6	5061.4	4837.2	4680.2	4625.2	4690.5	4904.5	5183.8	5346.9
19°	5151.1	5037.0	4823.0	4676.2	4633.3	4696.6	4896.3	5165.4	5318.3
20°	5106.3	4996.2	4798.5	4664.0	4627.3	4684.4	4876.0	5132.8	5279.6
21°	5051.3	4949.3	4763.8	4643.6	4617.1	4668.0	4847.4	5087.9	5226.5
22°	4996.2	4896.3	4727.2	4623.2	4600.8	4653.7	4816.8	5041.0	5171.5
23°	4931.0	4837.2	4680.2	4588.5	4576.3	4621.2	4774.1	4990.1	5106.3
24°	4857.6	4767.9	4629.3	4549.8	4545.8	4586.5	4725.1	4922.8	5028.9
25°	4774.1	4694.5	4566.1	4500.9	4505.0	4539.6	4666.0	4847.4	4945.3
26°	4674.1	4600.8	4492.7	4441.8	4447.9	4482.6	4598.7	4759.8	4853.5
27°	4562.0	4494.7	4407.1	4370.4	4386.8	4417.3	4517.2	4664.0	4739.4
28°	4421.4	4368.4	4305.2	4288.9	4309.3	4344.0	4427.5	4547.8	4615.1
29°	4258.3	4229.8	4180.9	4189.0	4217.5	4246.0	4315.4	4403.0	4456.1
30°	4083.0	4070.8	4042.2	4074.9	4107.4	4131.9	4178.8	4237.9	4278.7
31°	3903.6	3889.4	3893.4	3946.4	3995.3	4011.6	4038.1	4066.7	4097.3
32°	3701.8	3697.7	3714.0	3791.5	3854.7	3862.9	3864.9	3873.0	3889.4
33°	3495.9	3489.8	3522.5	3618.3	3689.6	3695.7	3679.4	3671.2	3683.5
34°	3281.9	3281.9	3324.7	3424.6	3508.2	3514.2	3481.7	3477.6	3465.3
35°	3076.0	3069.9	3118.8	3212.6	3306.3	3308.4	3271.7	3249.3	3247.3
37.5°	2566.4	2556.2	2572.5	2621.4	2690.7	2727.5	2723.4	2715.2	2709.1
40°	2101.6	2077.2	2044.6	2024.2	2044.6	2120.0	2185.2	2215.8	2221.9
42.5°	1663.4	1628.7	1559.4	1502.3	1510.5	1579.8	1679.7	1749.0	1783.6
45°	1239.3	1204.7	1147.6	1104.8	1104.8	1153.8	1237.3	1308.7	1347.4
47.5°	884.7	862.3	829.6	811.3	823.5	843.9	890.8	943.8	960.1
50°	609.5	603.4	585.1	585.1	597.2	613.6	621.7	648.2	654.4
52.5°	426.1	415.8	417.8	419.9	430.1	432.2	444.4	438.2	448.5
55°	279.2	279.2	279.2	285.4	289.5	289.5	283.3	279.2	279.2
57.5°	177.4	173.3	175.3	179.4	179.4	173.3	163.1	161.0	150.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	106.0	106.0	108.1	108.1	106.0	99.8	89.7	81.6	77.4
62.5°	55.0	57.1	57.1	67.3	57.1	50.9	46.9	36.7	34.7
65°	18.4	22.4	22.4	22.4	24.5	22.4	22.4	20.4	20.4
67.5°	12.2	14.3	14.3	16.3	16.3	16.3	16.3	20.4	14.3
70°	10.2	10.2	12.2	14.3	14.3	16.3	12.2	10.2	16.3
72.5°	6.1	8.1	6.1	10.2	8.1	8.1	8.1	8.1	8.1
75°	0.0	4.1	2.0	0.0	6.1	4.1	2.0	4.1	0.0
77.5°	2.0	2.0	2.0	2.0	4.1	4.1	4.1	4.1	2.0
80°	2.0	2.0	4.1	2.0	2.0	4.1	0.0	0.0	8.1
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	2.0	2.0
85°	0.0	2.0	2.0	2.0	2.0	2.0	4.1	4.1	0.0
87.5°	0.0	2.0	0.0	2.0	0.0	0.0	0.0	4.1	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)