

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: P247426

Luminaire Tested: **LSR8B80D010 EC8B809730 8LBW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247426  
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: LSR8B80D010 EC8B809730 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: 6410.0 lumens  
Efficiency: N/A  
Efficacy: 86.2 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

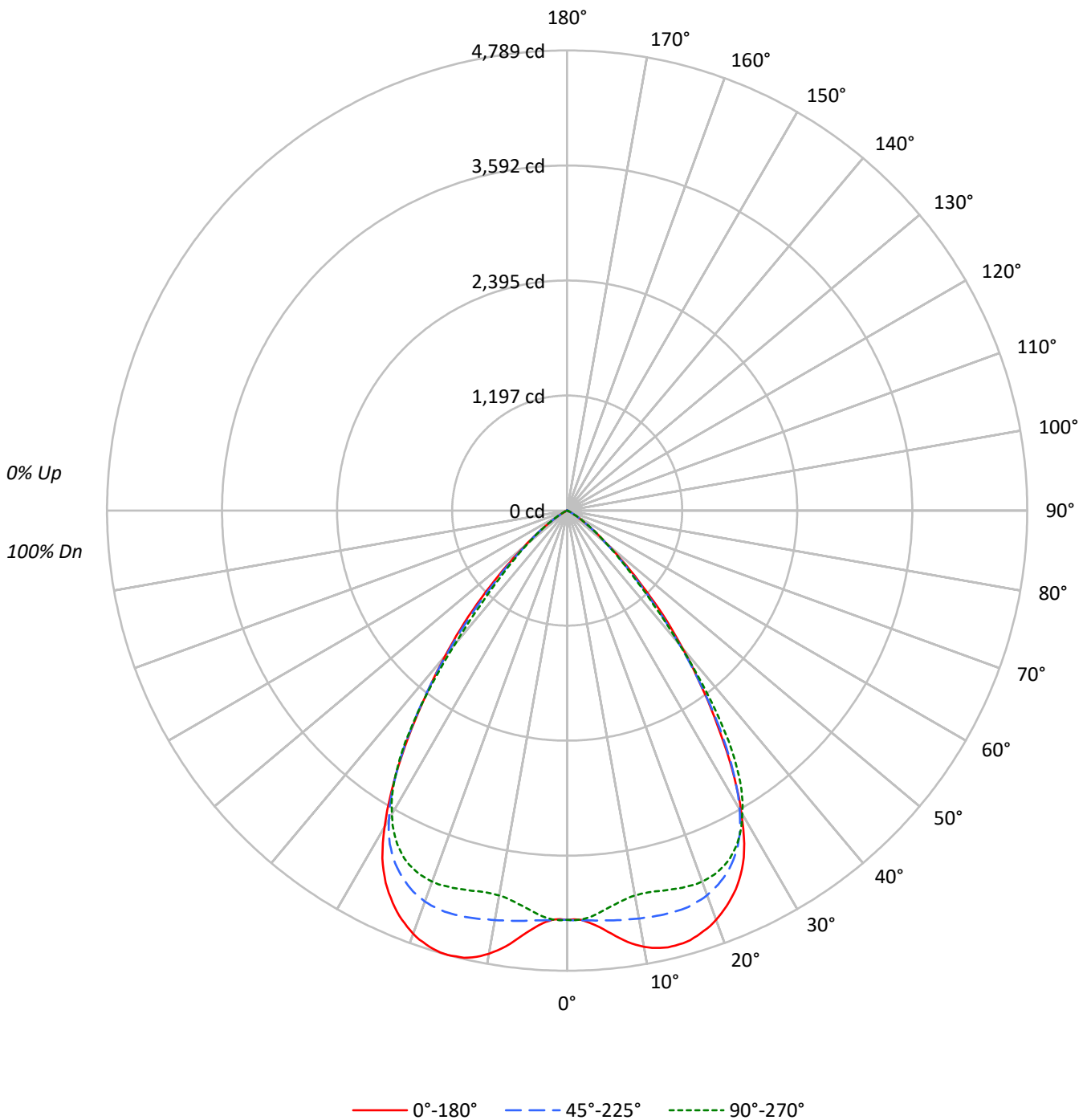
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	66	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°	410.7	6.4
10°-20°	1235.6	19.3
20°-30°	1880.7	29.3
30°-40°	1750.2	27.3
40°-50°	851.8	13.3
50°-60°	242.7	3.8
60°-70°	31.7	0.5
70°-80°	5.0	0.1
80°-90°	1.5	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°	3527.0	55.0
0°-40°	5277.2	82.3
0°-60°	6371.7	99.4
0°-90°	6410.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6410.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4261	4261	4261	4261	4261	
5°	4375	4279	4185	4282	4382	426
15°	4661	4322	4087	4364	4789	1311
25°	4239	4054	4000	4143	4391	1924
35°	2731	2769	2936	2905	2883	1698
45°	1100	1019	981	1099	1196	870
55°	248	248	257	252	248	243
65°	16	20	22	20	18	31
75°	0	2	5	2	0	3
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°	4260.7	4260.7	4260.7	4260.7	4260.7	4260.7	4260.7	4260.7	4260.7
1°	4255.3	4260.7	4264.4	4262.6	4264.4	4262.6	4258.9	4251.7	4251.7
2°	4262.6	4269.8	4268.0	4264.4	4258.9	4258.9	4269.8	4255.3	4258.9
3°	4291.5	4291.5	4269.8	4249.9	4242.6	4249.9	4268.0	4278.8	4287.9
4°	4327.7	4320.5	4277.0	4231.8	4217.3	4235.4	4275.3	4309.6	4327.7
5°	4374.8	4353.0	4278.8	4210.1	4184.7	4211.9	4282.5	4347.6	4382.0
6°	4429.1	4396.5	4289.7	4186.5	4154.0	4192.0	4293.4	4392.9	4445.3
7°	4483.4	4430.9	4295.1	4168.4	4126.8	4179.3	4302.4	4443.6	4512.3
8°	4534.1	4463.4	4300.6	4152.2	4101.4	4155.8	4309.6	4488.8	4579.3
9°	4575.7	4494.2	4304.2	4139.5	4079.8	4141.3	4318.7	4528.6	4635.4
10°	4610.1	4517.8	4311.5	4132.2	4067.1	4134.1	4327.7	4563.1	4682.5
11°	4637.3	4534.1	4313.3	4128.6	4061.7	4128.6	4334.9	4597.4	4722.3
12°	4653.5	4548.5	4318.7	4130.4	4063.4	4134.1	4345.8	4611.9	4754.9
13°	4664.4	4554.0	4322.3	4135.9	4067.1	4137.7	4353.0	4624.6	4776.6
14°	4664.4	4550.4	4322.3	4141.3	4078.0	4144.9	4358.5	4633.6	4782.0
15°	4660.8	4548.5	4322.3	4150.3	4087.0	4152.2	4363.9	4639.0	4789.2
16°	4649.9	4537.6	4320.5	4155.8	4096.0	4159.4	4365.7	4635.4	4783.9
17°	4628.2	4532.3	4313.3	4161.2	4105.1	4166.6	4365.7	4626.4	4771.1
18°	4599.2	4494.2	4295.1	4155.8	4106.9	4164.8	4354.9	4602.8	4747.7
19°	4573.9	4472.5	4282.5	4152.2	4114.1	4170.3	4347.6	4586.5	4722.3
20°	4534.1	4436.3	4260.7	4141.3	4108.7	4159.4	4329.6	4557.6	4687.9
21°	4485.2	4394.7	4230.0	4123.2	4099.7	4144.9	4304.2	4517.8	4640.8
22°	4436.3	4347.6	4197.4	4105.1	4085.2	4132.2	4277.0	4476.1	4592.0
23°	4378.4	4295.1	4155.8	4074.3	4063.4	4103.3	4239.0	4430.9	4534.1
24°	4313.3	4233.6	4110.5	4039.9	4036.3	4072.5	4195.6	4371.1	4465.3
25°	4239.0	4168.4	4054.4	3996.5	4000.1	4030.9	4143.1	4304.2	4391.1
26°	4150.3	4085.2	3989.2	3944.0	3949.5	3980.2	4083.3	4226.4	4309.6
27°	4050.8	3991.0	3913.3	3880.6	3895.1	3922.3	4011.0	4141.3	4208.3
28°	3925.9	3878.8	3822.7	3808.3	3826.4	3857.2	3931.4	4038.1	4097.9
29°	3781.1	3755.8	3712.3	3719.6	3744.9	3770.2	3831.7	3909.6	3956.7
30°	3625.5	3614.6	3589.2	3618.2	3647.1	3668.9	3710.5	3763.0	3799.2
31°	3466.2	3453.5	3457.1	3504.2	3547.6	3562.1	3585.6	3610.9	3638.1
32°	3287.0	3283.3	3297.8	3366.6	3422.7	3430.0	3431.8	3439.0	3453.5
33°	3104.2	3098.7	3127.7	3212.8	3276.1	3281.6	3267.0	3259.8	3270.7
34°	2914.1	2914.1	2952.1	3040.8	3115.0	3120.4	3091.5	3087.9	3077.0
35°	2731.3	2725.9	2769.3	2852.6	2935.8	2937.7	2905.0	2885.1	2883.3
37.5°	2278.8	2269.8	2284.2	2327.6	2389.2	2421.8	2418.2	2410.9	2405.5
40°	1866.1	1844.4	1815.4	1797.3	1815.4	1882.4	1940.3	1967.5	1972.9
42.5°	1477.0	1446.2	1384.7	1333.9	1341.2	1402.8	1491.4	1553.0	1583.7
45°	1100.5	1069.7	1019.0	981.0	981.0	1024.5	1098.7	1162.0	1196.4
47.5°	785.5	765.6	736.7	720.4	731.2	749.3	791.0	838.1	852.5
50°	541.2	535.7	519.5	519.5	530.3	544.8	552.1	575.6	581.0
52.5°	378.3	369.2	371.0	372.9	381.9	383.8	394.6	389.1	398.2
55°	247.9	247.9	247.9	253.4	257.0	257.0	251.6	247.9	247.9
57.5°	157.5	153.8	155.6	159.3	159.3	153.8	144.8	143.0	134.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	94.1	94.1	96.0	96.0	94.1	88.7	79.6	72.4	68.8
62.5°	48.9	50.7	50.7	59.8	50.7	45.2	41.6	32.6	30.8
65°	16.3	19.9	19.9	19.9	21.8	19.9	19.9	18.1	18.1
67.5°	10.9	12.7	12.7	14.5	14.5	14.5	14.5	18.1	12.7
70°	9.0	9.0	10.9	12.7	12.7	14.5	10.9	9.0	14.5
72.5°	5.4	7.2	5.4	9.0	7.2	7.2	7.2	7.2	7.2
75°	0.0	3.7	1.8	0.0	5.4	3.7	1.8	3.7	0.0
77.5°	1.8	1.8	1.8	1.8	3.7	3.7	3.7	3.7	1.8
80°	1.8	1.8	3.7	1.8	1.8	3.7	0.0	0.0	7.2
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	0.0	1.8	1.8
85°	0.0	1.8	1.8	1.8	1.8	1.8	3.7	3.7	0.0
87.5°	0.0	1.8	0.0	1.8	0.0	0.0	0.0	3.7	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)