

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: P247186

Luminaire Tested: **LSR8B80D010 EC8B80930 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247186  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-58)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B80D010 EC8B80930 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6964.8 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

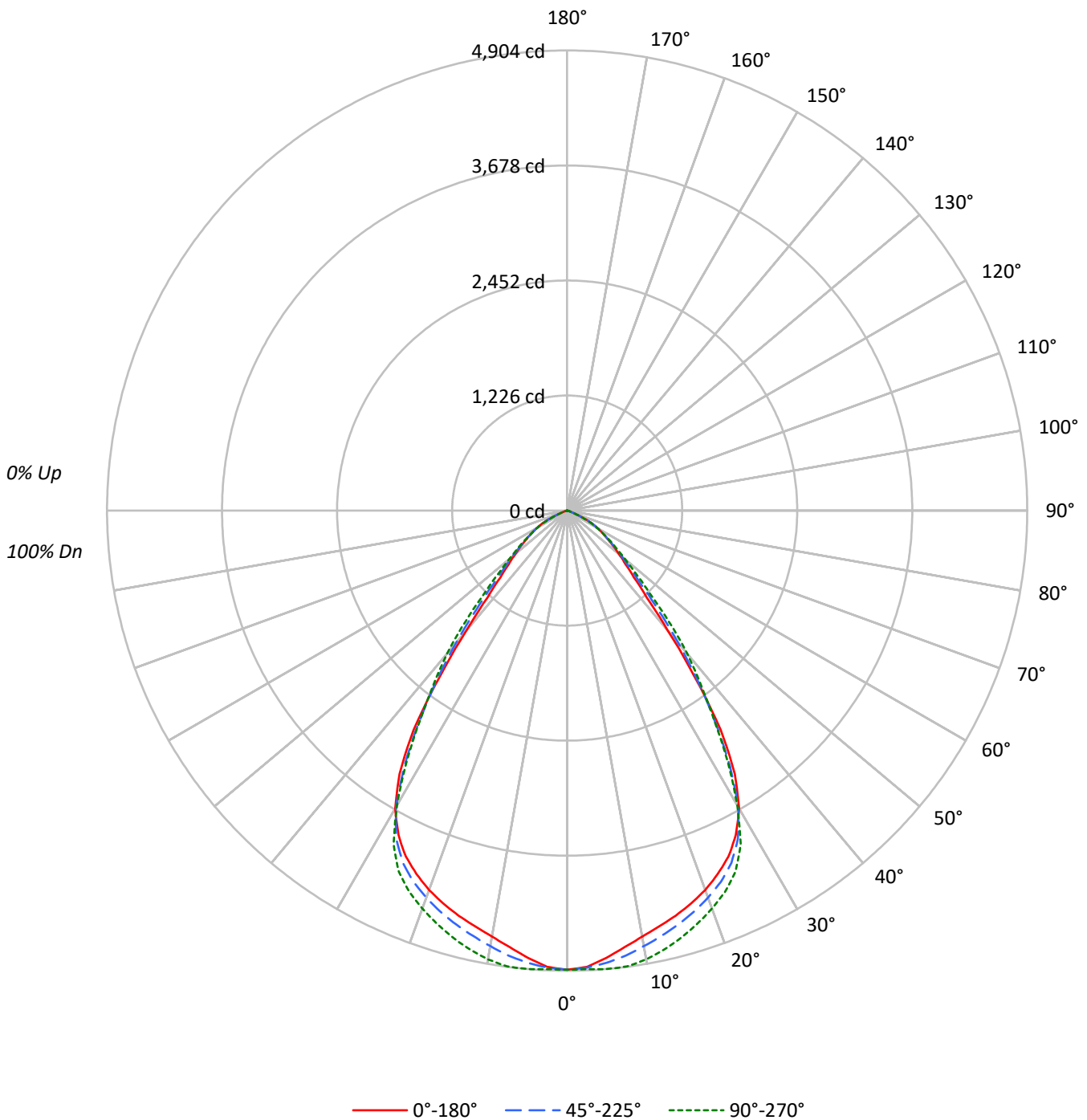
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82					82			
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74					74			
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61					61			
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56					56			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
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°	458.3	6.6
10°-20°	1291.4	18.5
20°-30°	1888.7	27.1
30°-40°	1711.4	24.6
40°-50°	910.0	13.1
50°-60°	485.7	7.0
60°-70°	198.1	2.8
70°-80°	20.0	0.3
80°-90°	1.2	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°	3638.5	52.2
0°-40°	5349.9	76.8
0°-60°	6745.5	96.9
0°-90°	6964.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6964.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4893	4893	4893	4893	4893	
5°	4785	4797	4837	4881	4904	451
15°	4469	4495	4568	4662	4710	1261
25°	4068	4085	4142	4213	4246	1859
35°	2852	2812	2753	2733	2738	1714
45°	1006	1036	1121	1211	1243	823
55°	524	524	534	541	550	475
65°	205	204	199	187	188	204
75°	15	15	14	13	13	21
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4893.1	4893.1	4893.1	4893.1	4893.1
2.5°	4866.6	4865.8	4874.9	4885.7	4891.4
5°	4784.9	4797.3	4836.9	4880.7	4903.8
7.5°	4692.4	4715.5	4784.1	4859.2	4899.7
10°	4609.0	4638.7	4713.9	4812.1	4856.7
12.5°	4537.1	4566.1	4642.1	4742.7	4791.5
15°	4469.4	4495.0	4567.7	4661.8	4709.8
17.5°	4391.0	4415.7	4485.9	4575.1	4616.4
20°	4302.6	4323.2	4389.3	4472.7	4514.8
22.5°	4192.8	4215.1	4282.0	4358.8	4398.4
25°	4068.1	4085.4	4141.5	4212.6	4245.6
27.5°	3894.7	3910.3	3943.3	3981.3	4006.1
30°	3665.1	3661.0	3648.5	3637.0	3626.2
32.5°	3326.5	3286.8	3226.6	3188.6	3190.3
35°	2851.6	2811.9	2753.3	2732.7	2737.6
37.5°	2228.1	2257.8	2281.8	2321.4	2340.4
40°	1669.8	1721.1	1842.5	1948.2	1991.9
42.5°	1255.3	1305.6	1432.9	1544.3	1604.6
45°	1005.9	1035.6	1121.4	1210.7	1242.9
47.5°	842.3	855.5	905.1	962.0	990.2
50°	720.9	729.2	755.7	787.1	805.2
52.5°	617.7	621.0	634.3	652.4	664.0
55°	524.4	523.6	533.5	540.9	550.0
57.5°	443.5	442.7	442.7	445.1	450.9
60°	374.1	371.6	371.6	368.4	369.9
62.5°	304.7	302.2	296.5	292.4	290.7
65°	204.8	204.0	199.0	187.4	188.3
67.5°	106.5	105.7	100.8	97.4	95.8
70°	56.9	55.4	52.8	50.3	48.8
72.5°	28.9	28.0	27.2	25.6	25.6
75°	14.9	14.9	14.0	13.2	13.2
77.5°	7.4	7.4	6.6	6.6	6.6
80°	4.1	4.1	3.3	3.3	3.3
82.5°	1.7	1.7	1.7	1.7	1.7
85°	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)