

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: P247586

Luminaire Tested: **LSR8B80D010 EC8B80840 8LBW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247586  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-62)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B80D010 EC8B80840 8LBW0B  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5494.0 lumens  
Efficiency: N/A  
Efficacy: 73.8 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

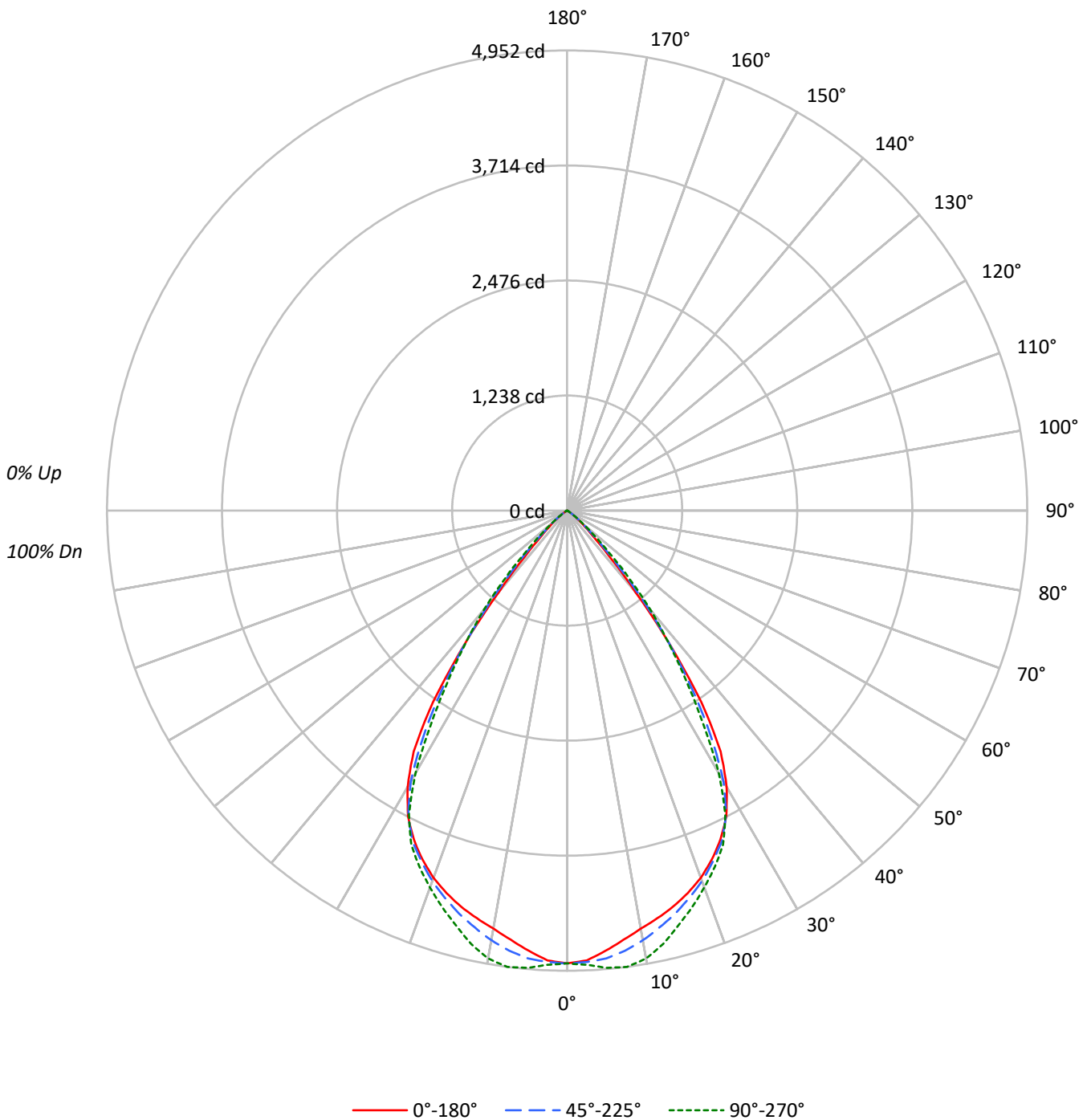
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95					93				
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88					86				
3	102	95	90	86	100	93	89	85	91	87	84	88	85	82	86	83	81					79				
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75					73				
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69					68				
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64					63				
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60					58				
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55					54				
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52					50				
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48					47				

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

	0°	45°	90°
0°	150268	150268	150268
5°	147181	149765	152901
10°	143036	147016	153269
15°	140852	143358	147576
20°	137972	139242	141654
25°	132878	133824	135008
30°	122256	119884	116348
35°	94732	88261	83849
40°	46030	52229	55949
45°	17806	22921	27770
50°	8342	9532	10914
55°	3473	3736	3844
60°	1166	1104	1042
65°	146	219	219
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	458.1	8.3
10°-20°	1267.6	23.1
20°-30°	1786.2	32.5
30°-40°	1445.1	26.3
40°-50°	458.8	8.4
50°-60°	73.4	1.3
60°-70°	5.0	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	3511.9	63.9
0°-40°	4956.9	90.2
0°-60°	5489.0	99.9
0°-90°	5494.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5494.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4873	4873	4873	4873	4873	
5°	4755	4777	4838	4909	4940	448
15°	4412	4429	4491	4576	4623	1243
25°	3905	3912	3933	3955	3968	1783
35°	2516	2448	2345	2260	2227	1492
45°	408	441	526	600	637	381
55°	65	66	70	72	72	67
65°	2	3	3	3	3	5
75°	0	0	0	0	0	0
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°
0°	4873.1	4873.1	4873.1	4873.1	4873.1
2.5°	4845.3	4850.2	4862.1	4885.0	4891.9
5°	4754.8	4776.7	4838.3	4908.8	4939.6
7.5°	4657.5	4686.3	4776.7	4895.9	4951.6
10°	4568.1	4598.9	4695.2	4822.4	4894.9
12.5°	4492.6	4516.4	4594.9	4709.1	4776.7
15°	4412.1	4429.0	4490.6	4576.0	4622.7
17.5°	4315.7	4330.6	4371.4	4437.9	4473.7
20°	4204.5	4208.4	4243.2	4285.9	4316.7
22.5°	4066.4	4070.3	4090.2	4130.9	4151.8
25°	3905.4	3912.4	3933.2	3955.1	3968.0
27.5°	3707.7	3710.7	3700.8	3682.9	3686.8
30°	3433.5	3422.6	3366.9	3290.4	3267.6
32.5°	3073.9	3001.3	2881.1	2773.8	2730.1
35°	2516.5	2448.0	2344.6	2260.2	2227.4
37.5°	1808.2	1813.1	1806.2	1787.3	1791.3
40°	1143.5	1189.2	1297.5	1368.0	1389.9
42.5°	686.5	736.2	855.4	950.8	981.6
45°	408.3	441.1	525.6	600.1	636.8
47.5°	262.3	278.2	319.9	363.6	384.5
50°	173.9	181.8	198.7	218.6	227.5
52.5°	111.3	114.3	122.2	129.2	136.1
55°	64.6	65.6	69.5	72.5	71.5
57.5°	33.8	33.8	33.8	33.8	33.8
60°	18.9	17.9	17.9	17.9	16.9
62.5°	8.9	8.9	8.9	7.9	7.9
65°	2.0	3.0	3.0	3.0	3.0
67.5°	0.0	0.0	0.0	0.0	1.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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)