

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: P247658

Luminaire Tested: **LSR8B80D010 EC8B80950 8LBS0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247658  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B80D010 EC8B80950 8LBS0B  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7171.0 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

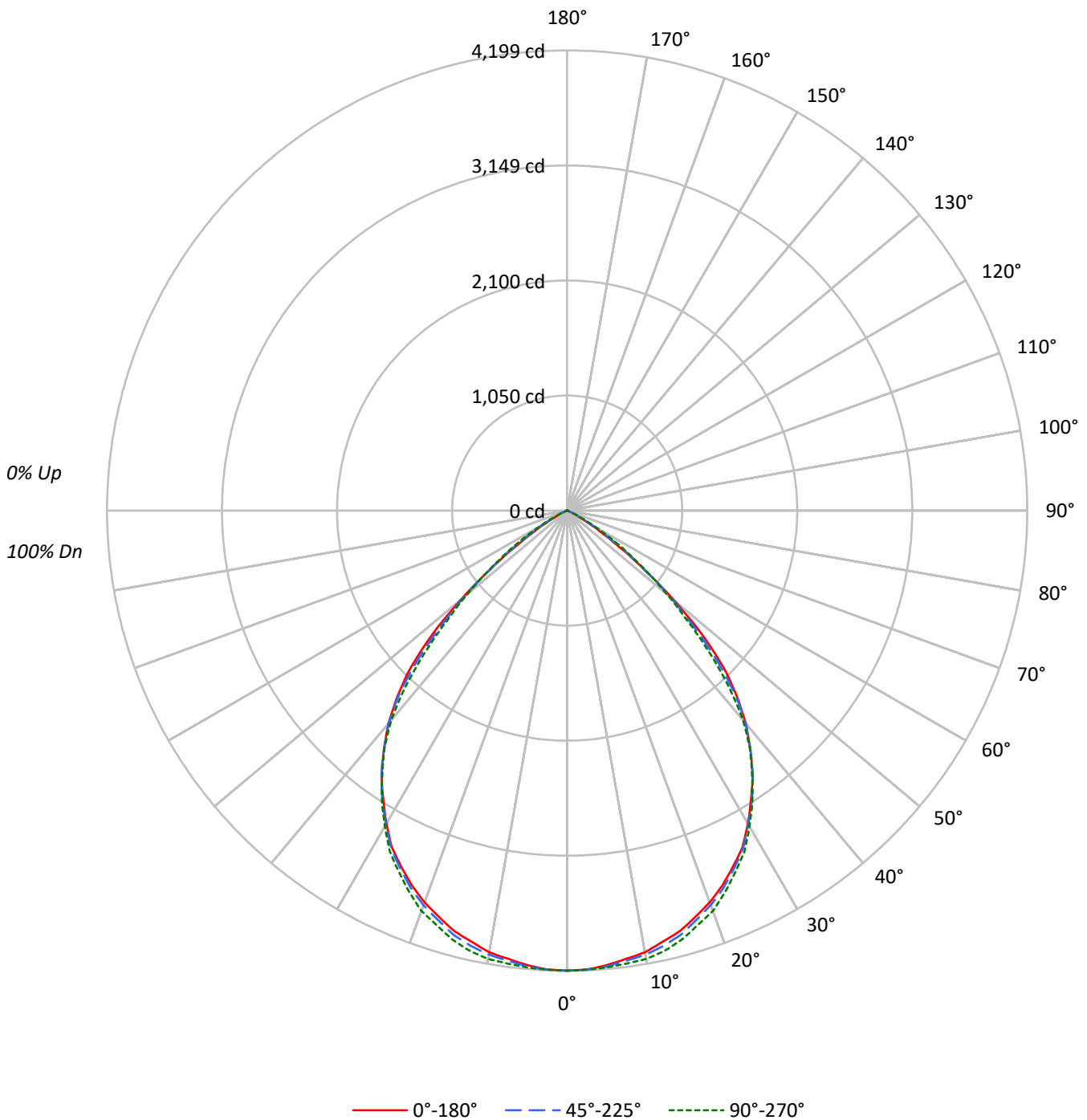
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37

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

	0°	45°	90°
0°	129472	129472	129472
5°	128884	129227	129540
10°	128151	128843	130058
15°	126857	127949	129331
20°	124833	125738	127586
25°	121929	122589	123688
30°	117424	117719	118474
35°	111054	111227	110776
40°	102048	101935	100526
45°	87750	84174	80311
50°	61007	58839	57203
55°	31827	34606	36638
60°	12908	15239	17688
65°	4108	5049	5385
70°	586	334	162
75°	0	0	0
80°	1474	320	497
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	396.5	5.5
10°-20°	1128.4	15.7
20°-30°	1657.7	23.1
30°-40°	1835.2	25.6
40°-50°	1462.6	20.4
50°-60°	599.3	8.4
60°-70°	88.2	1.2
70°-80°	1.3	0.0
80°-90°	1.8	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°	3182.6	44.4
0°-40°	5017.8	70.0
0°-60°	7079.7	98.7
0°-90°	7171.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7171.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4199	4199	4199	4199	4199	
5°	4164	4171	4175	4181	4185	395
15°	3974	3976	4008	4046	4051	1118
25°	3584	3580	3603	3624	3635	1648
35°	2950	2946	2955	2951	2943	1834
45°	2012	1994	1930	1858	1842	1510
55°	592	612	644	681	682	570
65°	56	59	69	76	74	75
75°	0	0	0	0	0	2
85°	0	0	0	4	0	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4198.7	4198.7	4198.7	4198.7	4198.7
2.5°	4191.4	4192.3	4192.3	4187.7	4193.2
5°	4163.7	4171.1	4174.8	4181.2	4184.9
7.5°	4125.0	4123.1	4142.5	4165.6	4168.3
10°	4092.7	4089.0	4114.8	4145.3	4153.6
12.5°	4029.1	4033.7	4066.9	4098.2	4114.8
15°	3973.7	3976.5	4007.9	4045.7	4051.2
17.5°	3888.0	3896.3	3917.5	3957.1	3964.5
20°	3804.1	3807.7	3831.7	3864.0	3888.0
22.5°	3701.7	3708.1	3726.6	3755.2	3767.2
25°	3583.6	3580.0	3603.0	3624.2	3635.3
27.5°	3463.8	3457.3	3474.8	3495.1	3505.3
30°	3297.8	3295.9	3306.1	3319.0	3327.3
32.5°	3123.5	3128.1	3138.2	3141.9	3144.7
35°	2950.1	2946.4	2954.7	2951.0	2942.7
37.5°	2744.4	2747.2	2747.2	2743.5	2739.8
40°	2535.1	2537.9	2532.3	2512.1	2497.3
42.5°	2289.8	2291.7	2263.1	2217.9	2187.4
45°	2012.2	1993.8	1930.2	1858.2	1841.6
47.5°	1662.7	1631.4	1565.0	1510.6	1491.2
50°	1271.7	1248.7	1226.5	1197.9	1192.4
52.5°	891.8	903.8	912.0	921.3	918.5
55°	592.0	612.3	643.7	680.6	681.5
57.5°	356.0	379.0	418.7	459.3	478.6
60°	209.3	218.6	247.1	277.6	286.8
62.5°	113.4	116.2	129.1	159.5	154.9
65°	56.3	59.0	69.2	75.6	73.8
67.5°	27.7	30.4	32.3	41.5	34.1
70°	6.5	1.8	3.7	4.6	1.8
72.5°	0.0	0.0	1.8	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	1.8	0.0	0.0	0.0	3.7
80°	8.3	5.5	1.8	1.8	2.8
82.5°	2.8	0.9	2.8	0.9	0.0
85°	0.0	0.0	0.0	3.7	0.0
87.5°	4.6	0.9	0.9	2.8	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)