

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: P247698

Luminaire Tested: **LSR8B80D010 EC8B80935 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247698  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-63)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B80D010 EC8B80935 8LBW0MW  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7382.0 lumens  
Efficiency: N/A  
Efficacy: 99.2 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.09 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

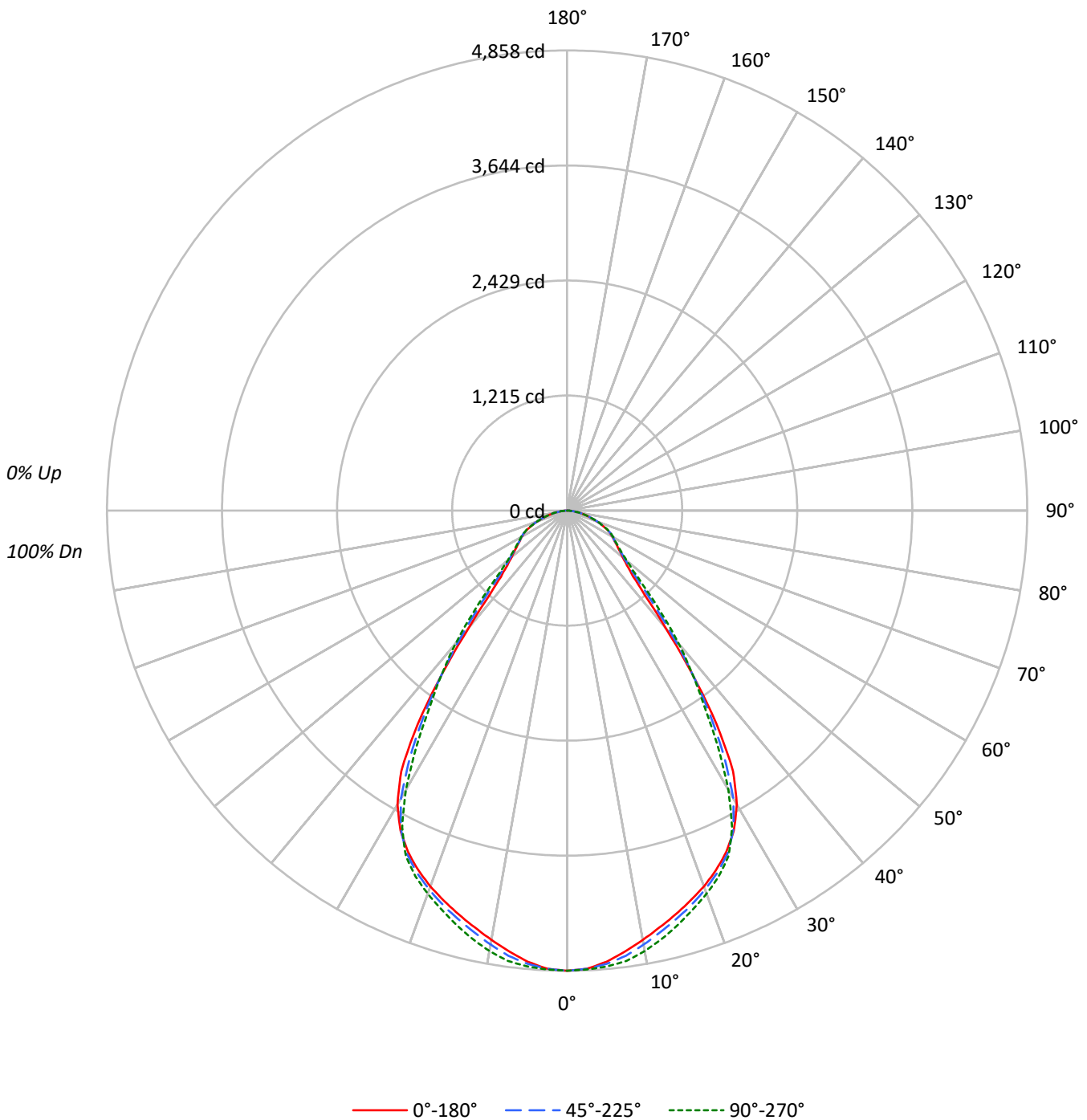
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57
6	79	67	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	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°	149800	149800	149800
5°	147970	148682	149527
10°	144098	145701	147837
15°	140951	142449	144492
20°	138533	139711	141250
25°	135280	136124	137022
30°	127543	124809	121134
35°	103540	98884	95097
40°	64748	70275	73673
45°	43143	47198	51215
50°	36781	37884	39194
55°	34386	34848	35354
60°	34086	34296	34611
65°	33228	33600	33856
70°	30140	30375	30600
75°	26319	26616	26724
80°	22411	22411	23014
85°	18115	18115	18115



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	453.9	6.1
10°-20°	1259.4	17.1
20°-30°	1820.7	24.7
30°-40°	1629.4	22.1
40°-50°	881.8	11.9
50°-60°	587.7	8.0
60°-70°	450.1	6.1
70°-80°	238.5	3.2
80°-90°	60.3	0.8
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°	3534.1	47.9
0°-40°	5163.5	69.9
0°-60°	6633.0	89.9
0°-90°	7382.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7382.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4858	4858	4858	4858	4858	
5°	4780	4783	4803	4822	4831	450
15°	4415	4424	4462	4506	4526	1246
25°	3976	3985	4001	4020	4027	1819
35°	2750	2722	2627	2551	2526	1665
45°	989	1018	1082	1150	1174	814
55°	640	642	648	655	658	579
65°	455	457	460	464	464	446
75°	221	221	223	224	224	237
85°	51	51	51	52	51	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4857.9	4857.9	4857.9	4857.9	4857.9
2.5°	4841.7	4840.0	4840.8	4845.9	4848.5
5°	4780.3	4782.8	4803.3	4822.1	4830.6
7.5°	4694.1	4705.2	4740.2	4776.9	4795.6
10°	4602.0	4613.1	4653.2	4705.2	4721.4
12.5°	4507.4	4521.0	4556.8	4609.7	4629.3
15°	4415.2	4423.8	4462.1	4505.6	4526.1
17.5°	4320.6	4329.1	4364.1	4398.2	4414.4
20°	4221.6	4231.0	4257.5	4286.5	4304.4
22.5°	4108.2	4117.6	4139.8	4165.4	4181.6
25°	3976.0	3985.4	4000.8	4019.5	4027.2
27.5°	3808.9	3814.8	3800.3	3785.0	3771.3
30°	3582.0	3563.2	3505.2	3431.0	3402.0
32.5°	3259.6	3199.1	3087.3	2996.9	2963.7
35°	2750.5	2722.3	2626.8	2550.9	2526.2
37.5°	2156.9	2175.6	2168.8	2163.7	2168.8
40°	1608.5	1652.0	1745.8	1809.8	1830.2
42.5°	1217.9	1259.7	1365.4	1454.1	1484.8
45°	989.3	1018.3	1082.3	1149.7	1174.4
47.5°	853.7	869.9	902.3	938.1	950.1
50°	766.7	773.5	789.7	810.2	817.0
52.5°	697.6	701.0	710.4	721.5	723.2
55°	639.6	642.2	648.2	655.0	657.6
57.5°	591.0	593.6	595.3	599.6	601.3
60°	552.7	552.7	556.1	559.5	561.2
62.5°	510.9	510.9	514.3	517.7	517.7
65°	455.4	457.1	460.5	464.0	464.0
67.5°	394.9	395.7	398.3	401.7	400.8
70°	334.3	334.3	336.9	338.6	339.4
72.5°	276.3	275.5	279.7	280.6	278.0
75°	220.9	220.9	223.4	224.3	224.3
77.5°	172.3	171.4	171.4	172.3	173.1
80°	126.2	127.1	126.2	127.9	129.6
82.5°	87.8	87.0	87.0	87.0	86.1
85°	51.2	51.2	51.2	52.0	51.2
87.5°	20.5	20.5	19.6	19.6	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)