

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: P247434

Luminaire Tested: **LSR8B80D010 EC8B80830 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247434  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B80D010 EC8B80830 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8974.0 lumens  
Efficiency: N/A  
Efficacy: 120.6 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

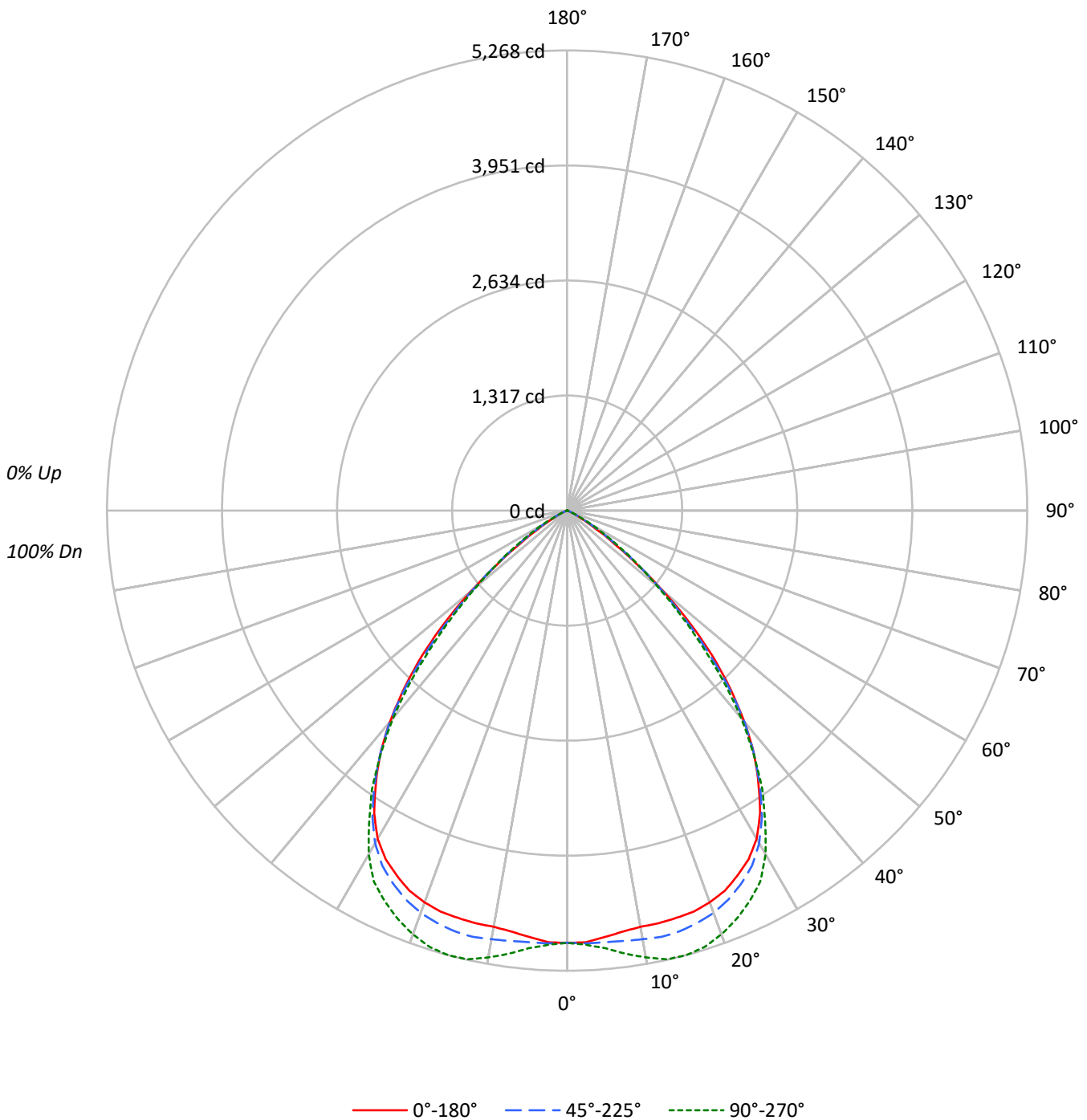
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82					82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49					49			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

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

	0°	45°	90°
0°	152569	152569	152569
5°	151722	153539	155681
10°	151459	156006	162631
15°	154114	159148	168173
20°	156618	160815	169396
25°	156889	160359	167950
30°	154498	156516	161722
35°	143790	144731	146541
40°	127086	126933	124646
45°	102368	98552	94736
50°	68740	66941	64677
55°	34897	37896	40224
60°	14296	17497	20401
65°	5334	5684	6669
70°	343	343	261
75°	691	1144	1489
80°	178	0	0
85°	672	0	672



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	475.1	5.3
10°-20°	1415.9	15.8
20°-30°	2178.8	24.3
30°-40°	2386.4	26.6
40°-50°	1735.2	19.3
50°-60°	667.5	7.4
60°-70°	104.6	1.2
70°-80°	7.5	0.1
80°-90°	3.0	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°	4069.9	45.4
0°-40°	6456.3	71.9
0°-60°	8858.9	98.7
0°-90°	8974.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8974.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4948	4948	4948	4948	4948	
5°	4902	4926	4960	5007	5029	466
15°	4828	4865	4985	5170	5268	1366
25°	4611	4639	4713	4852	4936	2121
35°	3820	3820	3845	3869	3893	2372
45°	2347	2323	2260	2202	2172	1785
55°	649	666	705	728	748	634
65°	73	76	78	88	91	89
75°	6	12	10	12	12	7
85°	2	0	0	0	2	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4947.7	4947.7	4947.7	4947.7	4947.7
2.5°	4946.7	4954.4	4959.2	4969.8	4974.6
5°	4901.5	4926.5	4960.2	5007.3	5029.4
7.5°	4862.1	4896.7	4968.9	5070.8	5116.0
10°	4837.1	4874.6	4982.3	5120.8	5193.9
12.5°	4840.0	4881.3	4997.7	5164.1	5262.2
15°	4827.5	4865.0	4985.2	5169.8	5267.9
17.5°	4813.1	4843.8	4950.6	5131.4	5237.2
20°	4772.7	4798.6	4900.6	5064.1	5162.1
22.5°	4712.1	4736.1	4820.8	4972.7	5063.1
25°	4611.1	4639.0	4713.1	4852.5	4936.2
27.5°	4498.6	4515.0	4583.2	4710.2	4790.0
30°	4339.0	4344.7	4395.7	4493.8	4541.9
32.5°	4111.1	4110.1	4148.6	4197.6	4215.9
35°	3819.7	3819.7	3844.7	3868.7	3892.8
37.5°	3516.8	3512.9	3515.8	3521.6	3501.4
40°	3157.1	3149.4	3153.3	3118.6	3096.5
42.5°	2762.8	2769.6	2731.1	2669.5	2646.5
45°	2347.4	2323.4	2259.9	2202.2	2172.4
47.5°	1906.0	1868.5	1807.9	1748.3	1743.5
50°	1432.9	1434.8	1395.4	1361.7	1348.2
52.5°	994.3	1004.9	1025.1	1029.0	1033.8
55°	649.1	666.4	704.9	728.0	748.2
57.5°	397.2	428.9	461.6	504.9	508.7
60°	231.8	247.1	283.7	316.4	330.8
62.5°	130.8	145.2	152.9	172.1	176.9
65°	73.1	76.0	77.9	88.5	91.4
67.5°	44.2	46.2	48.1	47.1	49.0
70°	3.8	8.7	3.8	4.8	2.9
72.5°	16.3	10.6	11.5	8.7	5.8
75°	5.8	12.5	9.6	12.5	12.5
77.5°	3.8	2.9	4.8	5.8	4.8
80°	1.0	0.0	0.0	0.0	0.0
82.5°	8.7	7.7	4.8	7.7	2.9
85°	1.9	0.0	0.0	0.0	1.9
87.5°	5.8	2.9	2.9	6.7	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)