

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: P247506

Luminaire Tested: **LSR8B80D010 EC8B80935 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247506  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-61)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B80D010 EC8B80935 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6473.0 lumens  
Efficiency: N/A  
Efficacy: 87.0 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

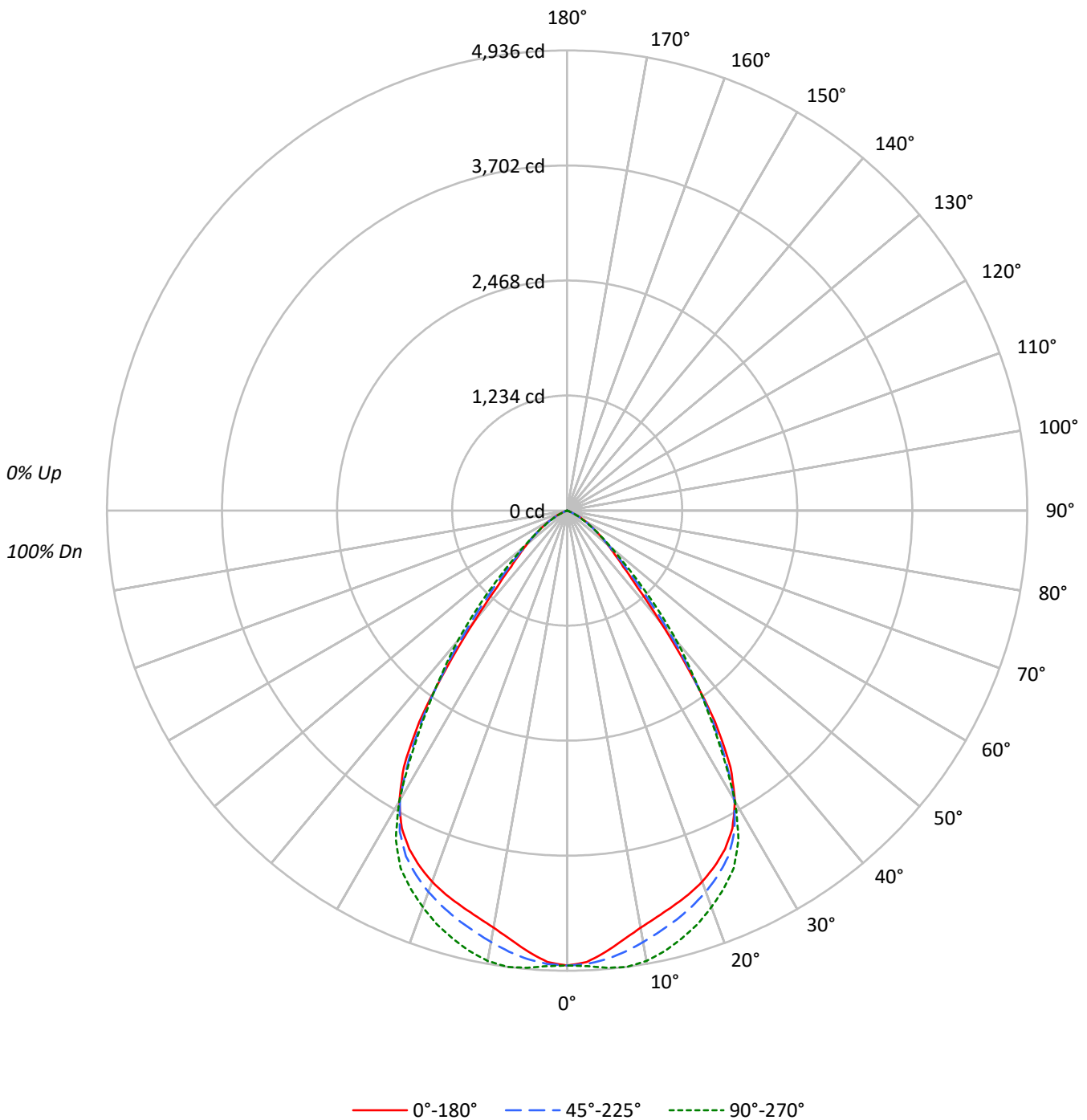
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47	46
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42

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

	0°	45°	90°
0°	150475	150475	150475
5°	147066	149545	152396
10°	142197	147163	153570
15°	140185	144977	151700
20°	139009	142812	148548
25°	136324	139227	143895
30°	128152	127668	128273
35°	104128	100627	99087
40°	61818	68130	73794
45°	36998	41647	47298
50°	26956	27652	29695
55°	19526	18838	19252
60°	13253	12254	11779
65°	6654	6158	5852
70°	1848	1614	1461
75°	715	512	512
80°	302	302	160
85°	318	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	457.5	7.1
10°-20°	1284.9	19.8
20°-30°	1867.5	28.8
30°-40°	1651.4	25.5
40°-50°	785.6	12.1
50°-60°	327.2	5.1
60°-70°	91.4	1.4
70°-80°	6.9	0.1
80°-90°	0.5	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°	3609.9	55.8
0°-40°	5261.3	81.3
0°-60°	6374.2	98.5
0°-90°	6473.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6473.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4880	4880	4880	4880	4880	
5°	4751	4775	4831	4895	4923	447
15°	4391	4431	4541	4679	4752	1240
25°	4007	4025	4092	4182	4229	1831
35°	2766	2727	2673	2632	2632	1656
45°	848	878	955	1044	1085	706
55°	363	359	350	350	358	330
65°	91	90	84	81	80	99
75°	6	5	4	4	4	8
85°	1	1	0	0	0	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4879.8	4879.8	4879.8	4879.8	4879.8
2.5°	4847.4	4851.7	4867.9	4883.2	4890.1
5°	4751.1	4774.9	4831.2	4895.2	4923.3
7.5°	4641.1	4676.9	4771.5	4884.1	4936.1
10°	4541.3	4586.5	4699.9	4838.9	4904.5
12.5°	4462.9	4504.6	4620.6	4765.6	4839.7
15°	4391.2	4431.3	4541.3	4679.4	4751.9
17.5°	4319.6	4358.0	4452.6	4581.4	4651.3
20°	4236.1	4266.8	4352.0	4465.4	4526.8
22.5°	4132.0	4160.2	4231.8	4332.4	4387.8
25°	4006.7	4024.6	4092.0	4182.3	4229.2
27.5°	3840.4	3844.7	3885.6	3944.4	3979.4
30°	3599.1	3596.6	3585.5	3582.9	3602.5
32.5°	3261.5	3223.9	3159.1	3128.4	3104.6
35°	2766.1	2726.8	2673.1	2632.2	2632.2
37.5°	2114.6	2148.7	2170.0	2195.6	2208.4
40°	1535.7	1586.0	1692.5	1803.4	1833.2
42.5°	1116.1	1163.0	1278.2	1401.8	1437.6
45°	848.4	878.2	955.0	1043.7	1084.6
47.5°	685.5	694.1	732.4	785.3	804.9
50°	561.9	564.5	576.4	603.7	619.0
52.5°	454.5	452.8	456.2	463.9	470.7
55°	363.2	359.0	350.4	350.4	358.1
57.5°	280.5	274.6	265.2	260.9	258.4
60°	214.9	208.9	198.7	191.9	191.0
62.5°	154.3	149.2	139.0	133.0	131.3
65°	91.2	89.5	84.4	81.0	80.2
67.5°	42.6	40.9	36.7	35.0	34.1
70°	20.5	19.6	17.9	17.1	16.2
72.5°	10.2	10.2	8.5	8.5	8.5
75°	6.0	5.1	4.3	4.3	4.3
77.5°	3.4	2.6	2.6	2.6	2.6
80°	1.7	1.7	1.7	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.9	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)