

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: P247478

Luminaire Tested: **LSR8B80D010 EC8B80827 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247478  
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 EC8B80827 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7121.0 lumens  
Efficiency: N/A  
Efficacy: 95.7 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

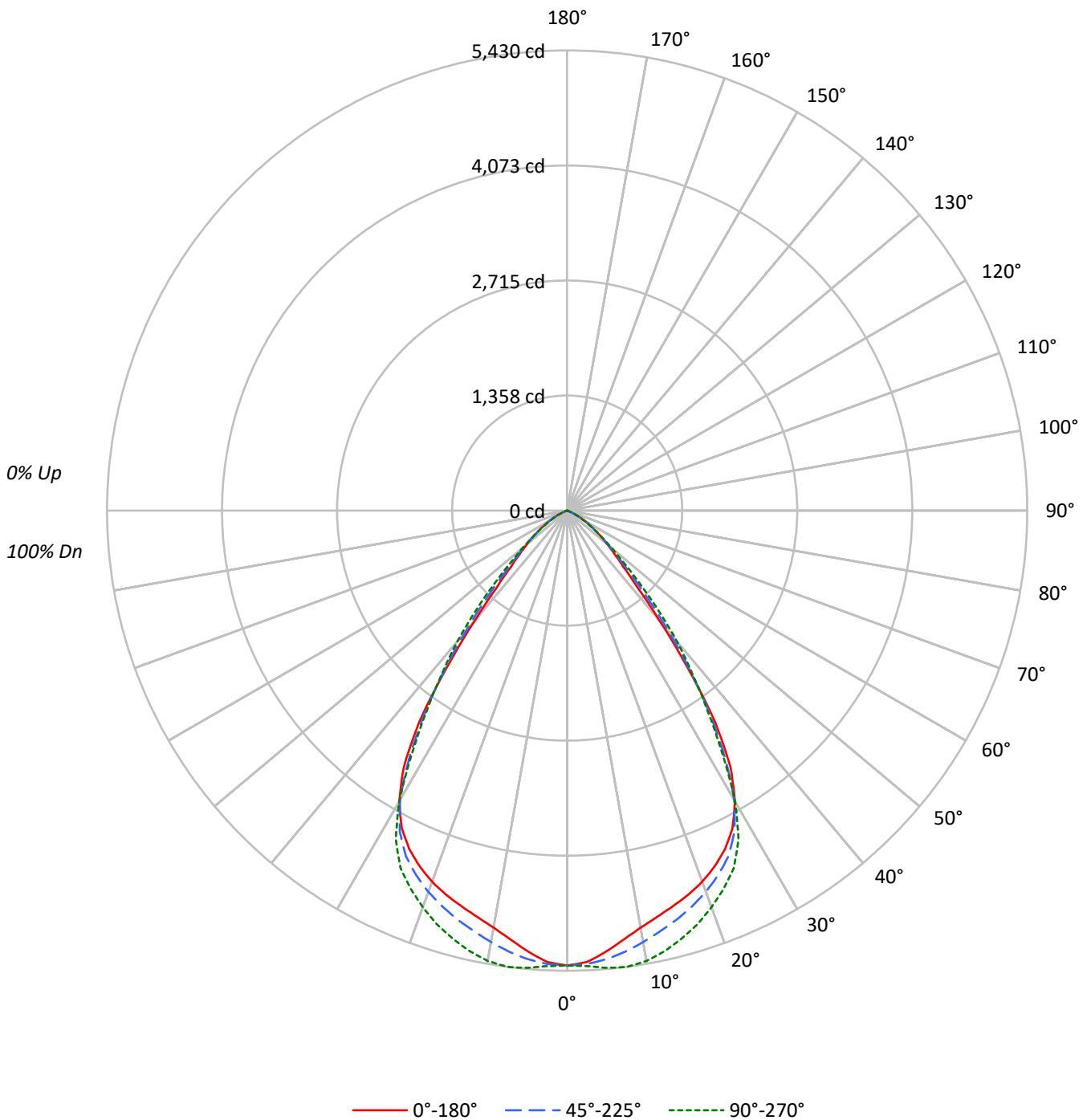
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	165539	165539	165539
5°	161788	164518	167654
10°	156432	161896	168944
15°	154219	159490	166886
20°	152923	157110	163420
25°	149971	153163	158301
30°	140981	140447	141117
35°	114551	110700	109006
40°	68005	74953	81184
45°	40700	45816	52034
50°	29657	30420	32669
55°	21483	20725	21182
60°	14579	13482	12957
65°	7326	6778	6436
70°	2029	1776	1605
75°	786	560	560
80°	337	337	160
85°	318	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	503.3	7.1
10°-20°	1413.5	19.8
20°-30°	2054.4	28.9
30°-40°	1816.8	25.5
40°-50°	864.3	12.1
50°-60°	360.0	5.1
60°-70°	100.6	1.4
70°-80°	7.6	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°	3971.2	55.8
0°-40°	5788.0	81.3
0°-60°	7012.3	98.5
0°-90°	7121.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7121.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5368	5368	5368	5368	5368	
5°	5227	5253	5315	5385	5416	491
15°	4831	4875	4996	5148	5228	1364
25°	4408	4428	4502	4601	4653	2015
35°	3043	3000	2941	2896	2896	1821
45°	933	966	1051	1148	1193	777
55°	400	395	386	386	394	364
65°	100	98	93	89	88	109
75°	7	6	5	5	5	9
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°	5368.3	5368.3	5368.3	5368.3	5368.3
2.5°	5332.7	5337.4	5355.2	5372.1	5379.6
5°	5226.7	5253.0	5314.9	5385.2	5416.2
7.5°	5105.7	5145.1	5249.2	5373.0	5430.2
10°	4995.9	5045.6	5170.4	5323.3	5395.5
12.5°	4909.6	4955.6	5083.2	5242.6	5324.2
15°	4830.8	4874.9	4995.9	5147.9	5227.6
17.5°	4752.0	4794.3	4898.4	5040.0	5116.9
20°	4660.1	4693.9	4787.7	4912.5	4980.0
22.5°	4545.7	4576.6	4655.4	4766.1	4827.1
25°	4407.8	4427.5	4501.6	4601.0	4652.6
27.5°	4224.9	4229.6	4274.6	4339.3	4377.8
30°	3959.4	3956.6	3944.4	3941.6	3963.2
32.5°	3588.0	3546.7	3475.4	3441.6	3415.4
35°	3043.0	2999.8	2940.7	2895.7	2895.7
37.5°	2326.3	2363.8	2387.3	2415.4	2429.5
40°	1689.4	1744.7	1862.0	1983.9	2016.8
42.5°	1227.9	1279.5	1406.1	1542.1	1581.5
45°	933.3	966.2	1050.6	1148.1	1193.2
47.5°	754.2	763.6	805.8	863.9	885.5
50°	618.2	621.0	634.1	664.1	681.0
52.5°	500.0	498.1	501.8	510.3	517.8
55°	399.6	394.9	385.5	385.5	394.0
57.5°	308.6	302.0	291.7	287.0	284.2
60°	236.4	229.8	218.6	211.1	210.1
62.5°	169.8	164.2	152.9	146.3	144.5
65°	100.4	98.5	92.9	89.1	88.2
67.5°	46.9	45.0	40.3	38.5	37.5
70°	22.5	21.6	19.7	18.8	17.8
72.5°	11.3	11.3	9.4	9.4	9.4
75°	6.6	5.6	4.7	4.7	4.7
77.5°	3.8	2.8	2.8	2.8	2.8
80°	1.9	1.9	1.9	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)