

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: P250778

Luminaire Tested: **LSR8B80D010 EC8B809727 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250778  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13935)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B80D010 EC8B809727 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5815.1 lumens  
Efficiency: N/A  
Efficacy: 78.2 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

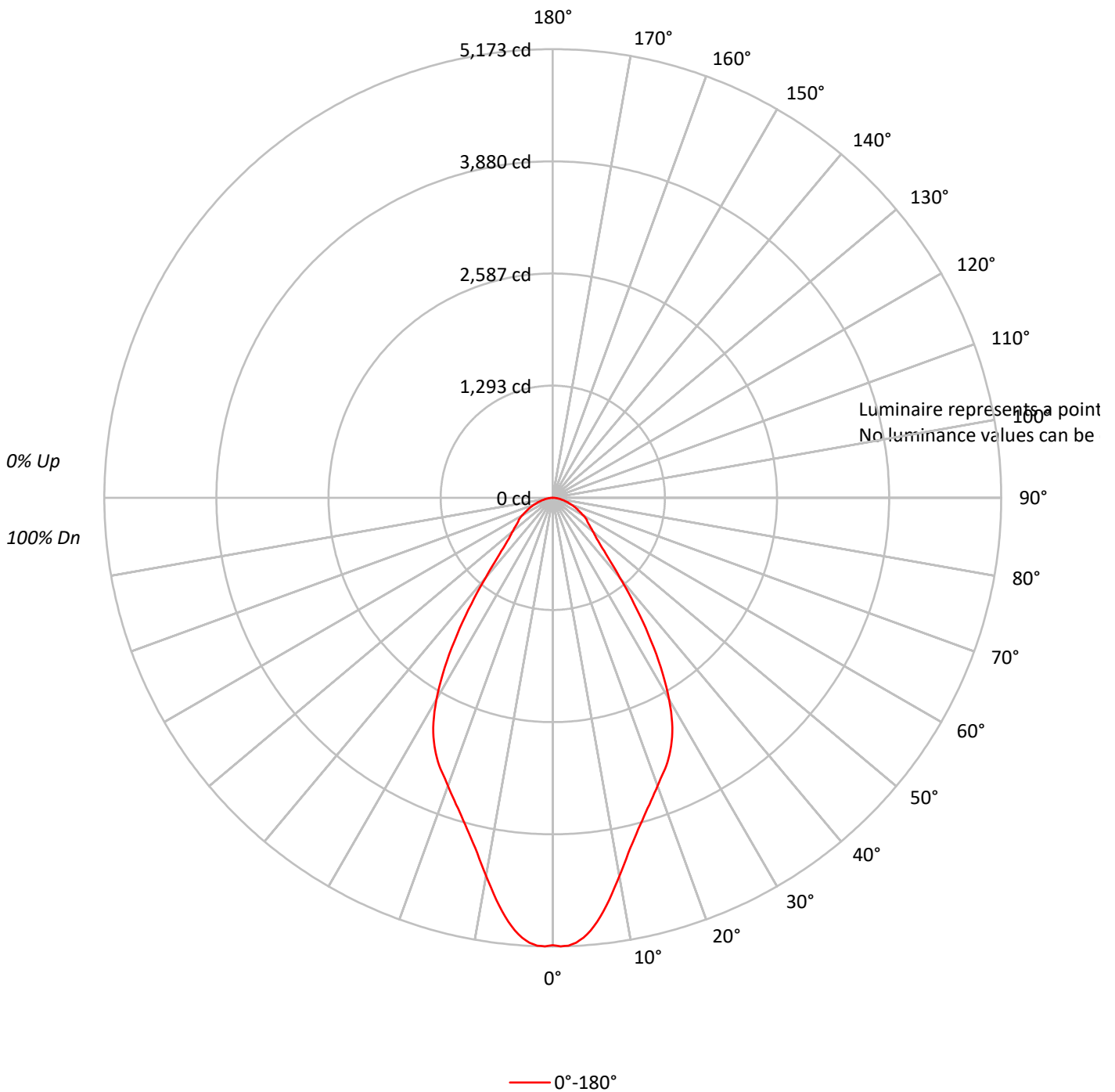
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	71
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	458.4	7.9
10°-20°	1100.3	18.9
20°-30°	1458.1	25.1
30°-40°	1195.6	20.6
40°-50°	636.8	11.0
50°-60°	448.2	7.7
60°-70°	309.1	5.3
70°-80°	161.0	2.8
80°-90°	47.6	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°	3016.8	51.9
0°-40°	4212.4	72.4
0°-60°	5297.4	91.1
0°-90°	5815.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5815.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5158	
5°	5008	458
15°	3902	1100
25°	3212	1458
35°	1923	1196
45°	786	637
55°	493	448
65°	310	309
75°	153	161
85°	44	48
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5158.2
1°	5173.3
2°	5166.6
3°	5136.3
4°	5084.2
5°	5008.4
6°	4914.3
7°	4801.5
8°	4680.4
9°	4550.9
10°	4426.4
11°	4306.9
12°	4185.8
13°	4084.8
14°	3988.9
15°	3901.5
16°	3819.0
17°	3743.3
18°	3672.6
19°	3602.0
20°	3534.7
21°	3469.1
22°	3411.9
23°	3353.0
24°	3284.0
25°	3211.7
26°	3129.3
27°	3036.7
28°	2932.4
29°	2816.3
30°	2683.4
31°	2543.8
32°	2397.4
33°	2240.9
34°	2084.5
35°	1922.9
37.5°	1541.1
40°	1208.0
42.5°	953.9
45°	785.7
47.5°	674.7
50°	605.7
52.5°	545.1
55°	493.0
57.5°	461.0



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	407.1
62.5°	355.0
65°	309.6
67.5°	269.2
70°	225.4
72.5°	188.4
75°	153.1
77.5°	111.0
80°	90.9
82.5°	65.6
85°	43.8
87.5°	20.2
90°	0.0

(END OF REPORT)