

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 EC8B80927 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 EC8B80927 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: 6541.9 lumens  
Efficiency: N/A  
Efficacy: 87.9 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

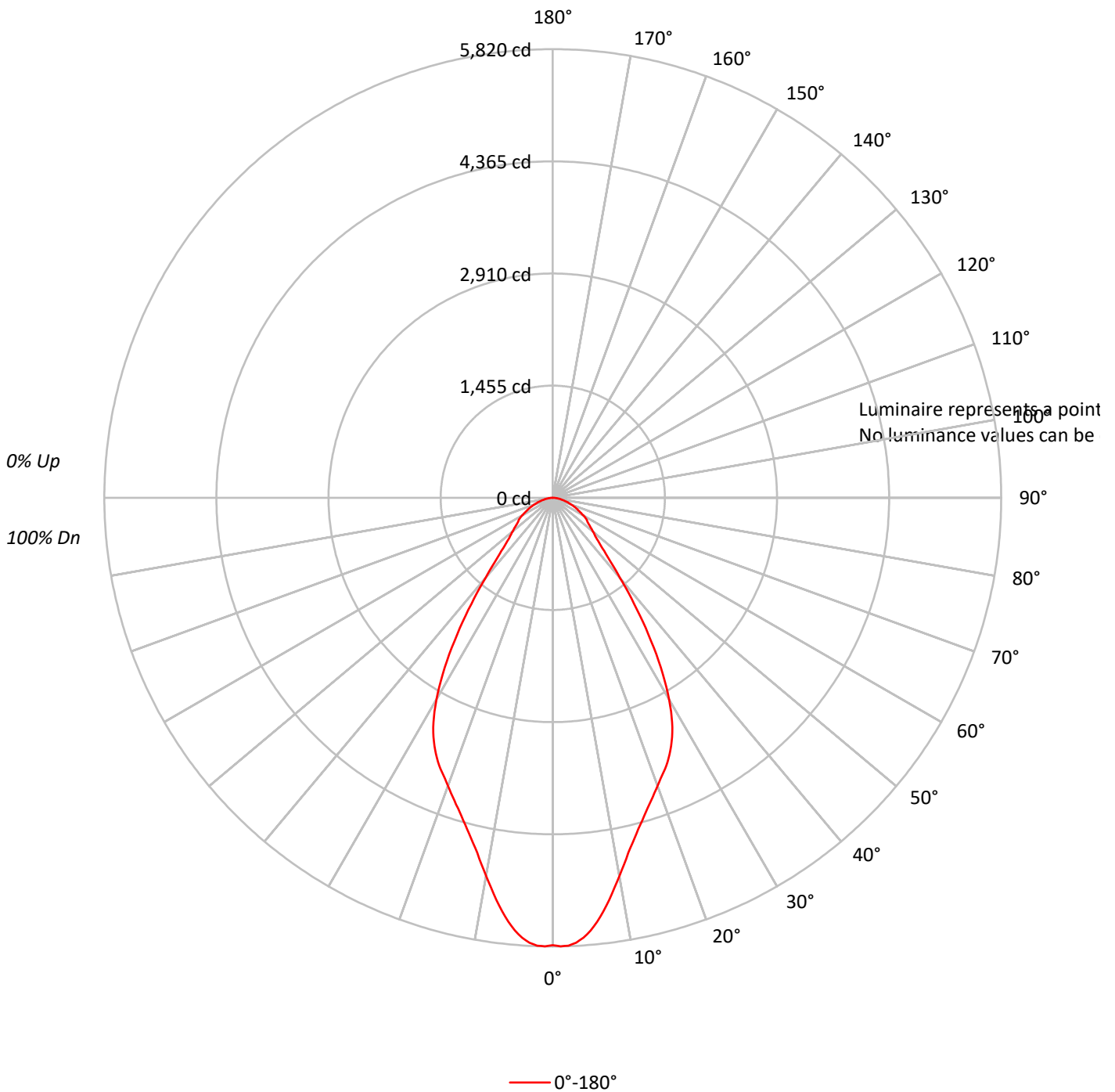
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	515.7	7.9
10°-20°	1237.8	18.9
20°-30°	1640.3	25.1
30°-40°	1345.1	20.6
40°-50°	716.4	11.0
50°-60°	504.2	7.7
60°-70°	347.7	5.3
70°-80°	181.1	2.8
80°-90°	53.6	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°	3393.9	51.9
0°-40°	4738.9	72.4
0°-60°	5959.6	91.1
0°-90°	6541.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6541.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5803	
5°	5634	516
15°	4389	1238
25°	3613	1640
35°	2163	1345
45°	884	716
55°	555	504
65°	348	348
75°	172	181
85°	49	54
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5803.0
1°	5820.0
2°	5812.4
3°	5778.3
4°	5719.7
5°	5634.4
6°	5528.6
7°	5401.7
8°	5265.4
9°	5119.8
10°	4979.7
11°	4845.3
12°	4709.0
13°	4595.4
14°	4487.5
15°	4389.2
16°	4296.4
17°	4211.2
18°	4131.7
19°	4052.2
20°	3976.5
21°	3902.7
22°	3838.4
23°	3772.1
24°	3694.5
25°	3613.2
26°	3520.5
27°	3416.3
28°	3299.0
29°	3168.3
30°	3018.8
31°	2861.8
32°	2697.1
33°	2521.0
34°	2345.1
35°	2163.3
37.5°	1733.7
40°	1359.0
42.5°	1073.1
45°	883.9
47.5°	759.0
50°	681.4
52.5°	613.2
55°	554.6
57.5°	518.6



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	458.0
62.5°	399.4
65°	348.3
67.5°	302.8
70°	253.6
72.5°	212.0
75°	172.2
77.5°	124.9
80°	102.3
82.5°	73.8
85°	49.3
87.5°	22.7
90°	0.0

(END OF REPORT)