

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: P249854

Luminaire Tested: **LSR8B80D010 EC8B80927 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249854  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13959)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B80D010 EC8B80927 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5905.1 lumens  
Efficiency: N/A  
Efficacy: 79.4 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.81  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

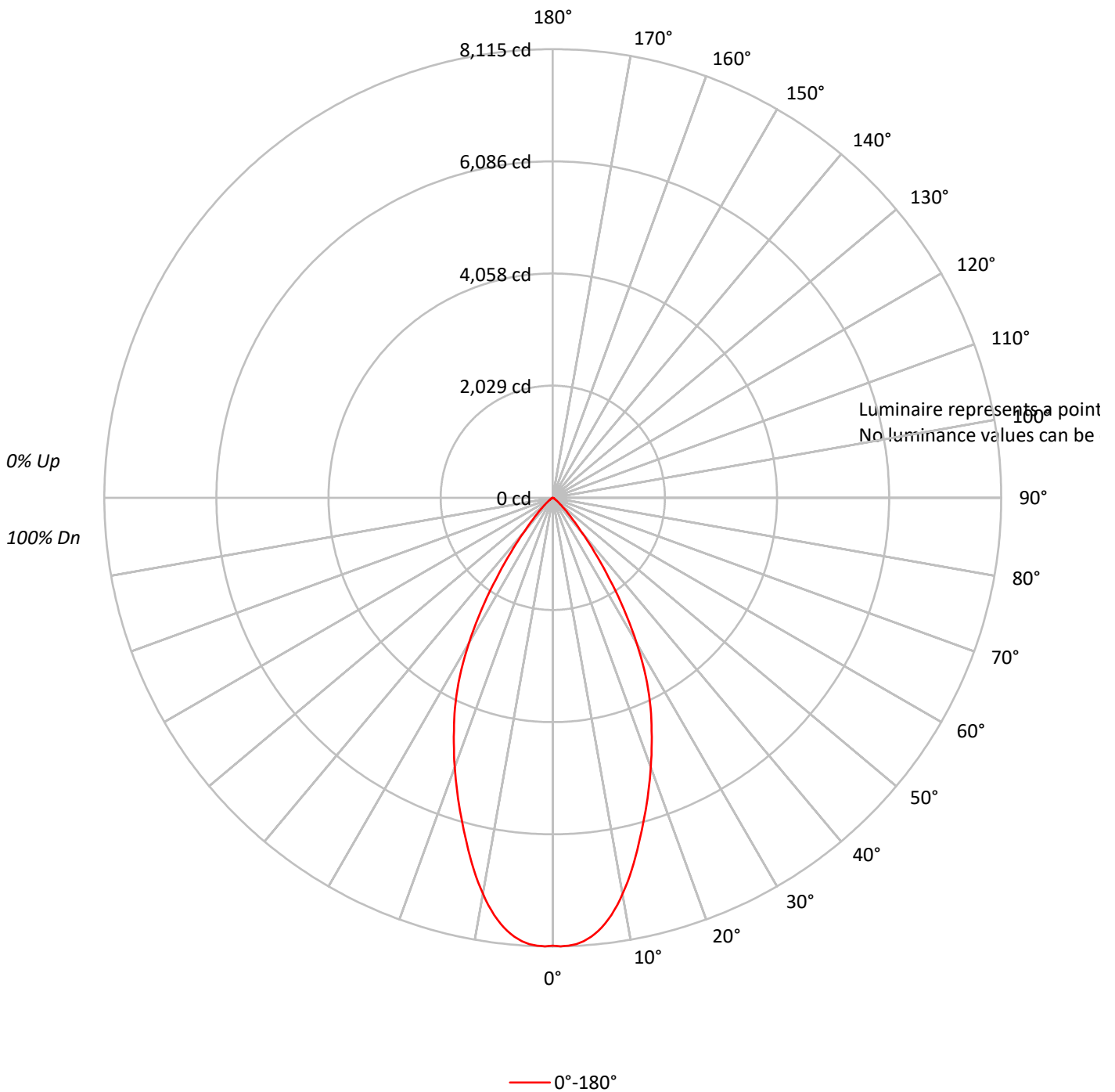
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	103	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	85	83	82
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74	81	77	74	79	76	73	71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	84	75	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63
8	81	71	65	62	79	71	65	61	70	65	61	69	64	61	68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58	65	61	57	64	60	57	56
10	73	64	58	55	72	64	58	55	63	58	54	62	57	54	61	57	54	53

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	738.6	12.5
10°-20°	1733.9	29.4
20°-30°	1895.1	32.1
30°-40°	1127.7	19.1
40°-50°	309.3	5.2
50°-60°	70.1	1.2
60°-70°	21.6	0.4
70°-80°	6.6	0.1
80°-90°	2.2	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°	4367.6	74.0
0°-40°	5495.3	93.1
0°-60°	5874.7	99.5
0°-90°	5905.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5905.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8099	
5°	7969	739
15°	6223	1734
25°	4186	1895
35°	1784	1128
45°	362	309
55°	70	70
65°	22	22
75°	6	7
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	8099.2
1°	8115.3
2°	8105.3
3°	8085.3
4°	8039.4
5°	7969.4
6°	7879.5
7°	7759.6
8°	7619.6
9°	7457.8
10°	7275.9
11°	7082.1
12°	6874.3
13°	6660.4
14°	6438.6
15°	6222.8
16°	6011.0
17°	5803.2
18°	5595.3
19°	5387.5
20°	5185.7
22.5°	4678.1
25°	4186.5
27.5°	3645.0
30°	3043.5
32.5°	2398.0
35°	1784.5
37.5°	1241.0
40°	823.3
42.5°	539.6
45°	361.7
47.5°	239.8
50°	159.9
52.5°	97.9
55°	70.0
57.5°	49.9
60°	37.9
62.5°	28.0
65°	21.9
67.5°	14.0
70°	10.0
72.5°	8.0
75°	6.0
77.5°	4.0
80°	4.0



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	2.0
85°	2.0
87.5°	2.0
90°	0.0

(END OF REPORT)