

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: P250453

Luminaire Tested: **LSR8B150D010 EC8B1509730 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250453  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13948)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B150D010 EC8B1509730 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6809.0 lumens  
Efficiency: N/A  
Efficacy: 43.0 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

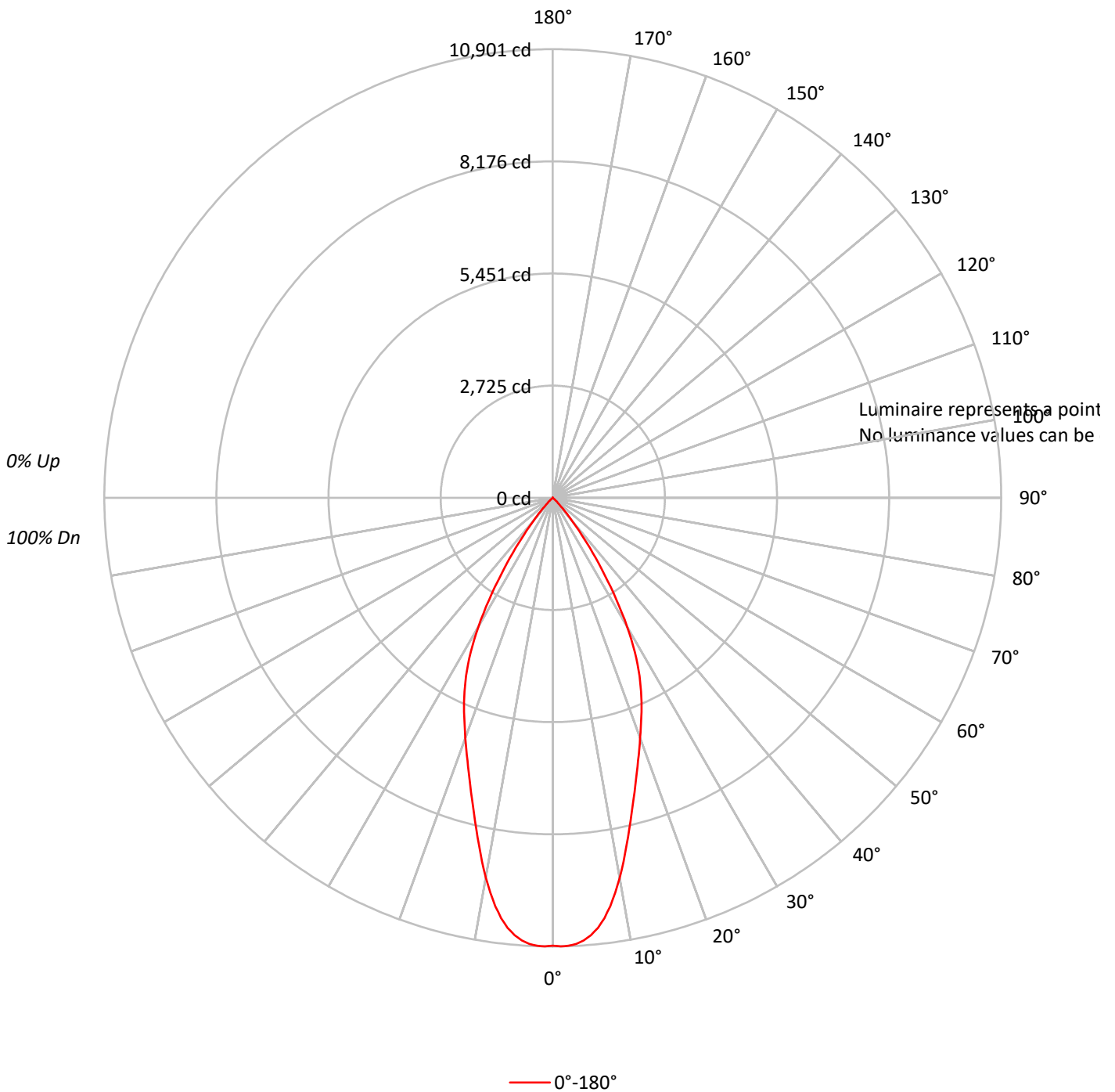
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	114	111	109	107	112	109	107	105	105	104	102	101	100	99	98	97	96	94	94	94
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89	89	89
3	104	98	93	90	102	97	92	89	94	90	88	92	89	86	89	87	85	83	83	83
4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	78	78	78
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74	74	74
6	90	82	77	73	89	81	76	72	80	75	72	79	75	71	77	74	71	70	70	70
7	86	78	72	68	85	77	72	68	76	71	68	75	71	67	74	70	67	66	66	66
8	83	74	68	64	81	73	68	64	72	67	64	71	67	64	70	66	63	62	62	62
9	79	70	65	61	78	70	64	61	69	64	61	68	63	60	67	63	60	59	59	59
10	76	67	61	58	75	66	61	58	65	61	57	65	60	57	64	60	57	56	56	56

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	976.7	14.3
10°-20°	2122.8	31.2
20°-30°	2279.0	33.5
30°-40°	1231.7	18.1
40°-50°	192.2	2.8
50°-60°	5.3	0.1
60°-70°	1.3	0.0
70°-80°	0.0	0.0
80°-90°	0.0	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°	5378.5	79.0
0°-40°	6610.3	97.1
0°-60°	6807.7	100.0
0°-90°	6809.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6809.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10880	
5°	10666	977
15°	7579	2123
25°	5052	2279
35°	1935	1232
45°	177	192
55°	0	5
65°	0	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10880.1
1°	10900.8
2°	10890.5
3°	10853.2
4°	10781.6
5°	10665.5
6°	10505.8
7°	10290.8
8°	10021.8
9°	9712.1
10°	9367.8
11°	9006.6
12°	8631.9
13°	8257.5
14°	7909.7
15°	7579.4
16°	7276.2
17°	6983.2
18°	6710.7
19°	6455.5
20°	6210.0
21°	5971.5
22°	5746.5
23°	5522.0
24°	5287.0
25°	5051.7
26°	4813.2
27°	4540.9
28°	4240.9
29°	3934.7
30°	3614.3
31°	3270.3
32°	2926.0
33°	2585.5
34°	2241.5
35°	1934.8
37.5°	1236.5
40°	715.4
42.5°	381.6
45°	177.3
47.5°	95.6
50°	30.9
52.5°	3.5
55°	0.0
57.5°	3.5



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	3.5
62.5°	0.0
65°	0.0
67.5°	3.5
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)