

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: P250701

Luminaire Tested: **LSR8B80D010 EC8B809730 8LBN0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250701  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P131425)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B80D010 EC8B809730 8LBN0MW  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5699.0 lumens  
Efficiency: N/A  
Efficacy: 76.6 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.85  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

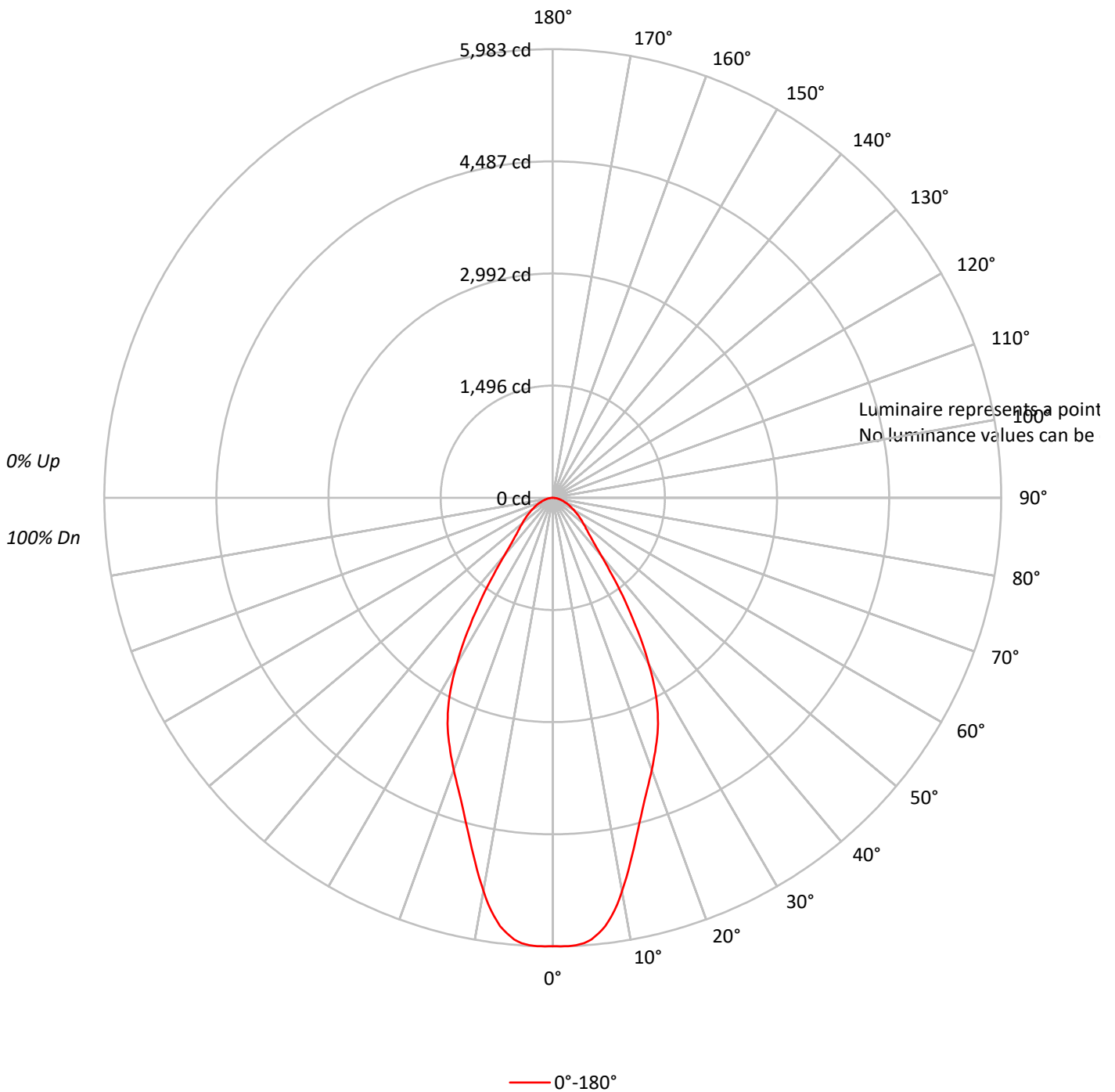
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	106	103	109	106	104	101	102	100	98		98	97	95		95	94	92	90
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88	86	83	82
3	99	91	85	80	96	89	84	79	87	82	78		84	80	77		82	78	76	74
4	93	84	77	72	91	83	76	72	80	75	71		78	74	70		76	72	69	67
5	87	78	71	66	85	77	70	65	75	69	65		73	68	64		71	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60		68	63	59		67	62	59	57
7	78	67	60	56	76	67	60	55	65	59	55		64	59	55		63	58	54	53
8	74	63	56	52	72	62	56	51	61	55	51		60	55	51		59	54	51	49
9	70	59	53	48	69	59	52	48	58	52	48		57	51	48		56	51	47	46
10	66	56	49	45	65	55	49	45	54	49	45		54	48	45		53	48	45	43

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	545.8	9.6
10°-20°	1259.4	22.1
20°-30°	1501.0	26.3
30°-40°	1059.5	18.6
40°-50°	547.2	9.6
50°-60°	375.5	6.6
60°-70°	244.1	4.3
70°-80°	127.8	2.2
80°-90°	38.8	0.7
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°	3306.1	58.0
0°-40°	4365.6	76.6
0°-60°	5288.3	92.8
0°-90°	5699.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5699.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5979	
5°	5914	546
15°	4479	1259
25°	3322	1501
35°	1684	1060
45°	684	547
55°	416	375
65°	246	244
75°	118	128
85°	33	39
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5979.0
1°	5982.7
2°	5982.7
3°	5973.5
4°	5953.6
5°	5913.5
6°	5842.6
7°	5755.3
8°	5635.3
9°	5489.9
10°	5326.2
11°	5153.4
12°	4973.4
13°	4800.7
14°	4633.4
15°	4478.8
16°	4335.2
17°	4202.4
18°	4082.4
19°	3969.6
20°	3860.5
21°	3753.2
22°	3647.8
23°	3542.3
24°	3435.0
25°	3322.3
26°	3194.9
27°	3056.7
28°	2905.9
29°	2745.8
30°	2564.0
31°	2387.6
32°	2207.5
33°	2022.1
34°	1851.1
35°	1683.9
37.5°	1296.6
40°	998.4
42.5°	803.8
45°	683.7
47.5°	598.2
50°	531.0
52.5°	472.8
55°	416.4
57.5°	365.5



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	323.7
62.5°	281.9
65°	245.5
67.5°	212.7
70°	171.0
72.5°	147.3
75°	118.2
77.5°	96.3
80°	74.5
82.5°	54.6
85°	32.7
87.5°	18.2
90°	0.0

(END OF REPORT)