

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: P251151

Luminaire Tested: **LSR8B70D010 EC8B709730 8LBN0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13946)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B70D010 EC8B709730 8LBN0WH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5174.0 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.66
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

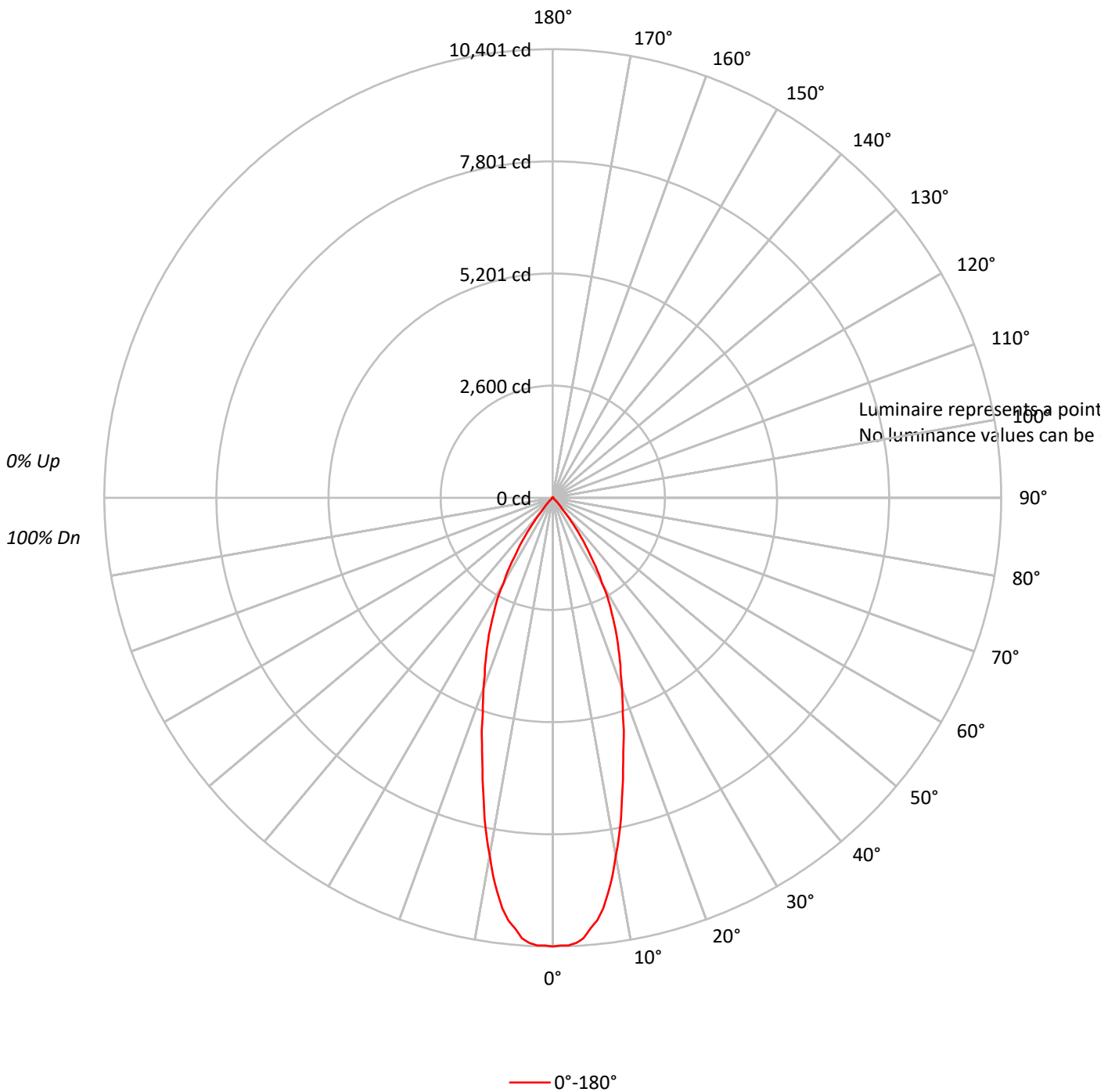
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	908.4	17.6
10°-20°	1760.2	34.0
20°-30°	1584.8	30.6
30°-40°	784.1	15.2
40°-50°	119.3	2.3
50°-60°	4.9	0.1
60°-70°	6.3	0.1
70°-80°	2.4	0.0
80°-90°	3.7	0.1
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°	4253.4	82.2
0°-40°	5037.4	97.4
0°-60°	5161.6	99.8
0°-90°	5174.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5174.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10401	
5°	10020	908
15°	6306	1760
25°	3504	1585
35°	1269	784
45°	132	119
55°	2	5
65°	4	6
75°	4	2
85°	5	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	10401.0
1°	10379.3
2°	10384.7
3°	10332.3
4°	10236.7
5°	10020.1
6°	9853.9
7°	9590.4
8°	9236.5
9°	8868.2
10°	8424.0
11°	8026.9
12°	7600.8
13°	7129.6
14°	6723.4
15°	6306.3
16°	5950.6
17°	5636.5
18°	5250.1
19°	4966.6
20°	4688.7
21°	4399.8
22°	4188.5
23°	3943.0
24°	3717.3
25°	3504.3
26°	3253.3
27°	3027.7
28°	2825.5
29°	2603.4
30°	2283.8
31°	2103.3
32°	1875.8
33°	1626.7
34°	1437.1
35°	1269.2
37.5°	803.4
40°	362.9
42.5°	247.3
45°	131.8
47.5°	74.0
50°	1.8
52.5°	7.2
55°	1.8
57.5°	10.9



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CANDELA DISTRIBUTION (continued):

	0°
60°	1.8
62.5°	9.1
65°	3.6
67.5°	9.1
70°	5.4
72.5°	1.8
75°	3.6
77.5°	0.0
80°	1.8
82.5°	7.2
85°	5.4
87.5°	0.0
90°	0.0

(END OF REPORT)