

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: P250959

Luminaire Tested: **LSR8B70D010 EC8B709730 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250959
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27944)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B70D010 EC8B709730 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5023.0 lumens
Efficiency: N/A
Efficacy: 66.2 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.79
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

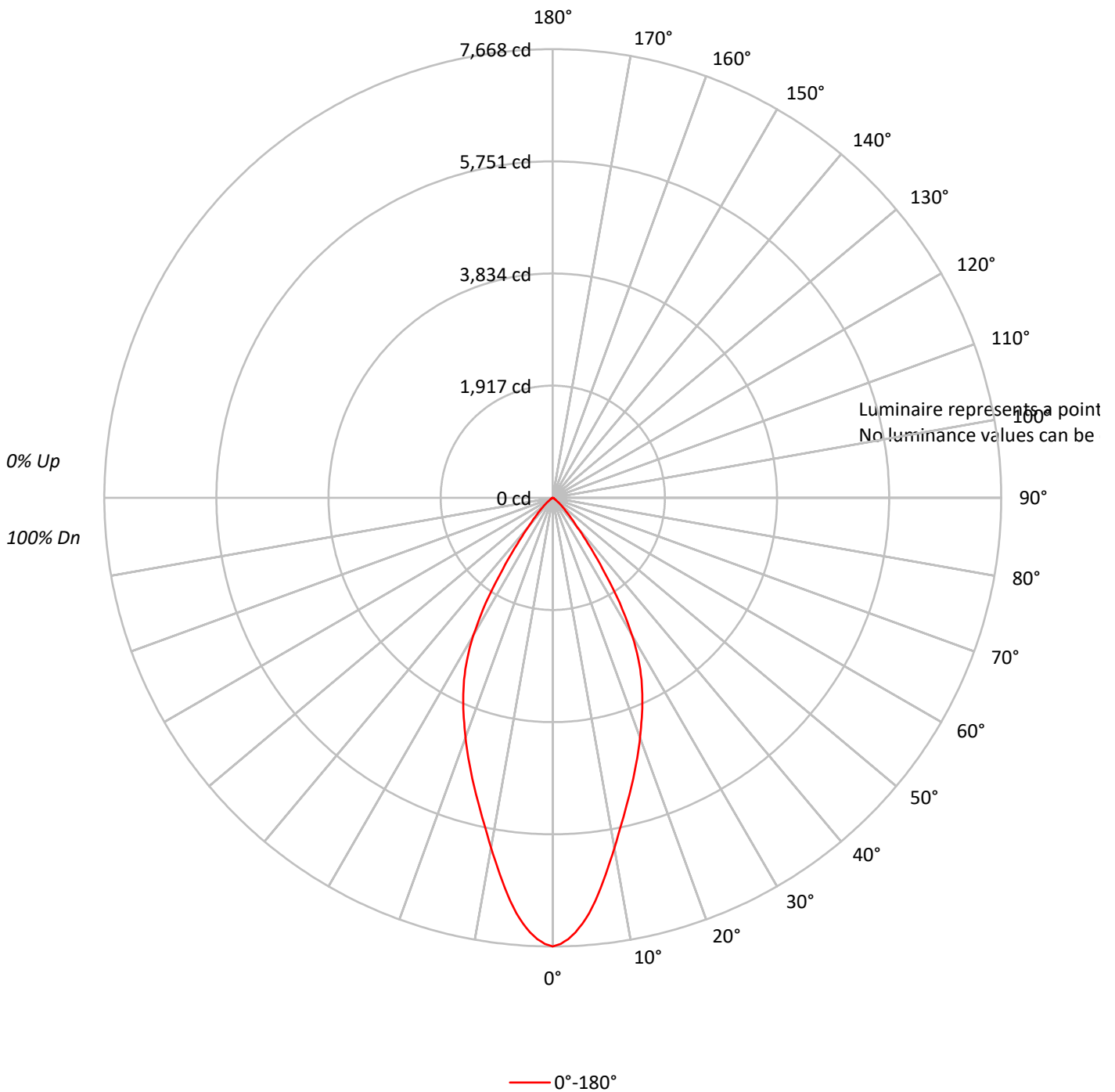
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	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	86	83	82
4	98	91	85	81	96	90	85	81	87	83	80		85	82	79		84	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74		81	77	74		79	76	73	72
6	89	80	74	70	87	79	74	70	78	73	69		76	72	69		75	71	69	67
7	85	76	70	66	83	75	69	65	74	69	65		72	68	65		71	67	64	63
8	81	71	66	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	58		64	60	57	56
10	74	64	59	55	73	64	58	55	63	58	55		62	58	54		61	57	54	53

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	644.8	12.8
10°-20°	1441.0	28.7
20°-30°	1638.3	32.6
30°-40°	962.1	19.2
40°-50°	258.2	5.1
50°-60°	61.3	1.2
60°-70°	14.0	0.3
70°-80°	3.1	0.1
80°-90°	0.2	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°	3724.1	74.1
0°-40°	4686.2	93.3
0°-60°	5005.7	99.7
0°-90°	5023.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5023.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7668	
5°	7125	645
15°	5154	1441
25°	3615	1638
35°	1498	962
45°	309	258
55°	61	61
65°	14	14
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7667.7
1°	7625.2
2°	7547.2
3°	7436.9
4°	7294.5
5°	7124.8
6°	6933.1
7°	6716.0
8°	6498.8
9°	6280.0
10°	6071.4
11°	5867.8
12°	5676.1
13°	5498.0
14°	5319.9
15°	5153.6
16°	4990.8
17°	4829.6
18°	4673.5
19°	4515.8
20°	4361.4
21°	4207.0
22°	4059.4
23°	3913.6
24°	3764.3
25°	3615.0
26°	3460.6
27°	3292.7
28°	3116.3
29°	2922.9
30°	2714.2
32.5°	2129.0
35°	1497.9
37.5°	987.3
40°	646.3
42.5°	446.1
45°	308.7
47.5°	212.0
50°	140.8
52.5°	91.6
55°	61.1
57.5°	40.7
60°	27.1
62.5°	18.7
65°	13.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	8.5
70°	5.1
72.5°	3.4
75°	3.4
77.5°	1.7
80°	1.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)