

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: P250943

Luminaire Tested: **LSR8B70D010 EC8B70840 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250943
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 EC8B70840 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6774.1 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.79
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

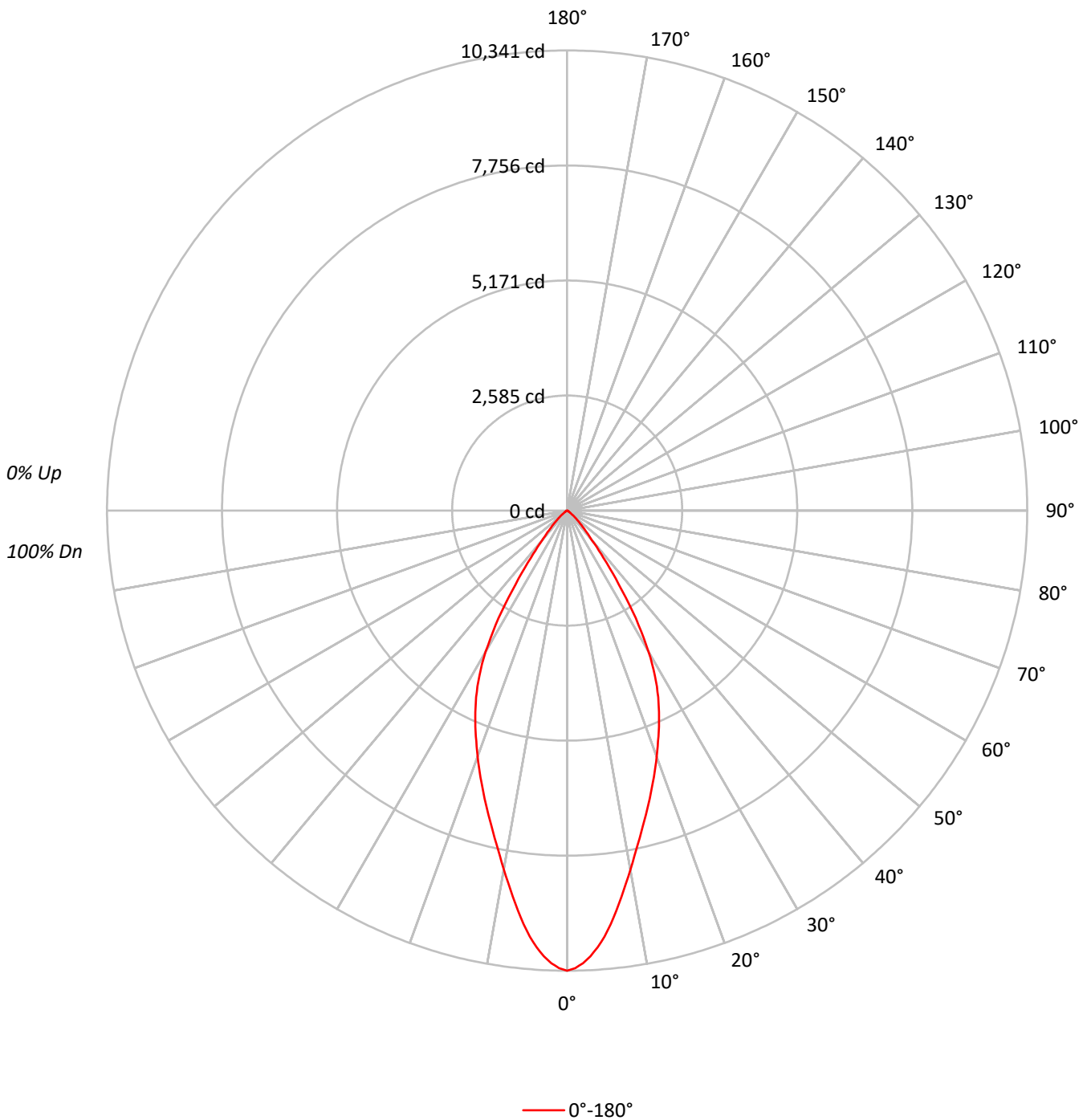
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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):

	0°
0°	318866
5°	297423
10°	256377
15°	221876
20°	193013
25°	165874
30°	130335
35°	76045
40°	35085
45°	18159
50°	9110
55°	4430
60°	2257
65°	1335
70°	622
75°	548
80°	408
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	869.6	12.8
10°-20°	1943.3	28.7
20°-30°	2209.4	32.6
30°-40°	1297.6	19.2
40°-50°	348.2	5.1
50°-60°	82.6	1.2
60°-70°	18.8	0.3
70°-80°	4.2	0.1
80°-90°	0.3	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°	5022.2	74.1
0°-40°	6319.8	93.3
0°-60°	6750.7	99.7
0°-90°	6774.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6774.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10341	
5°	9608	870
15°	6950	1943
25°	4875	2209
35°	2020	1298
45°	416	348
55°	82	83
65°	18	19
75°	5	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	10340.6
1°	10283.4
2°	10178.1
3°	10029.4
4°	9837.3
5°	9608.5
6°	9350.0
7°	9057.2
8°	8764.3
9°	8469.2
10°	8187.8
11°	7913.3
12°	7654.8
13°	7414.6
14°	7174.3
15°	6950.1
16°	6730.5
17°	6513.2
18°	6302.7
19°	6090.0
20°	5881.8
21°	5673.6
22°	5474.6
23°	5277.8
24°	5076.5
25°	4875.2
26°	4667.0
27°	4440.5
28°	4202.6
29°	3941.8
30°	3660.4
32.5°	2871.1
35°	2020.1
37.5°	1331.5
40°	871.6
42.5°	601.7
45°	416.4
47.5°	286.0
50°	189.9
52.5°	123.5
55°	82.4
57.5°	54.9
60°	36.6
62.5°	25.2
65°	18.3



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	11.4
70°	6.9
72.5°	4.6
75°	4.6
77.5°	2.3
80°	2.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)