

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: P244362

Luminaire Tested: **LSR8B10D010 EC8B109727 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244362
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: LSR8B10D010 EC8B109727 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 728.0 lumens
Efficiency: N/A
Efficacy: 71.4 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

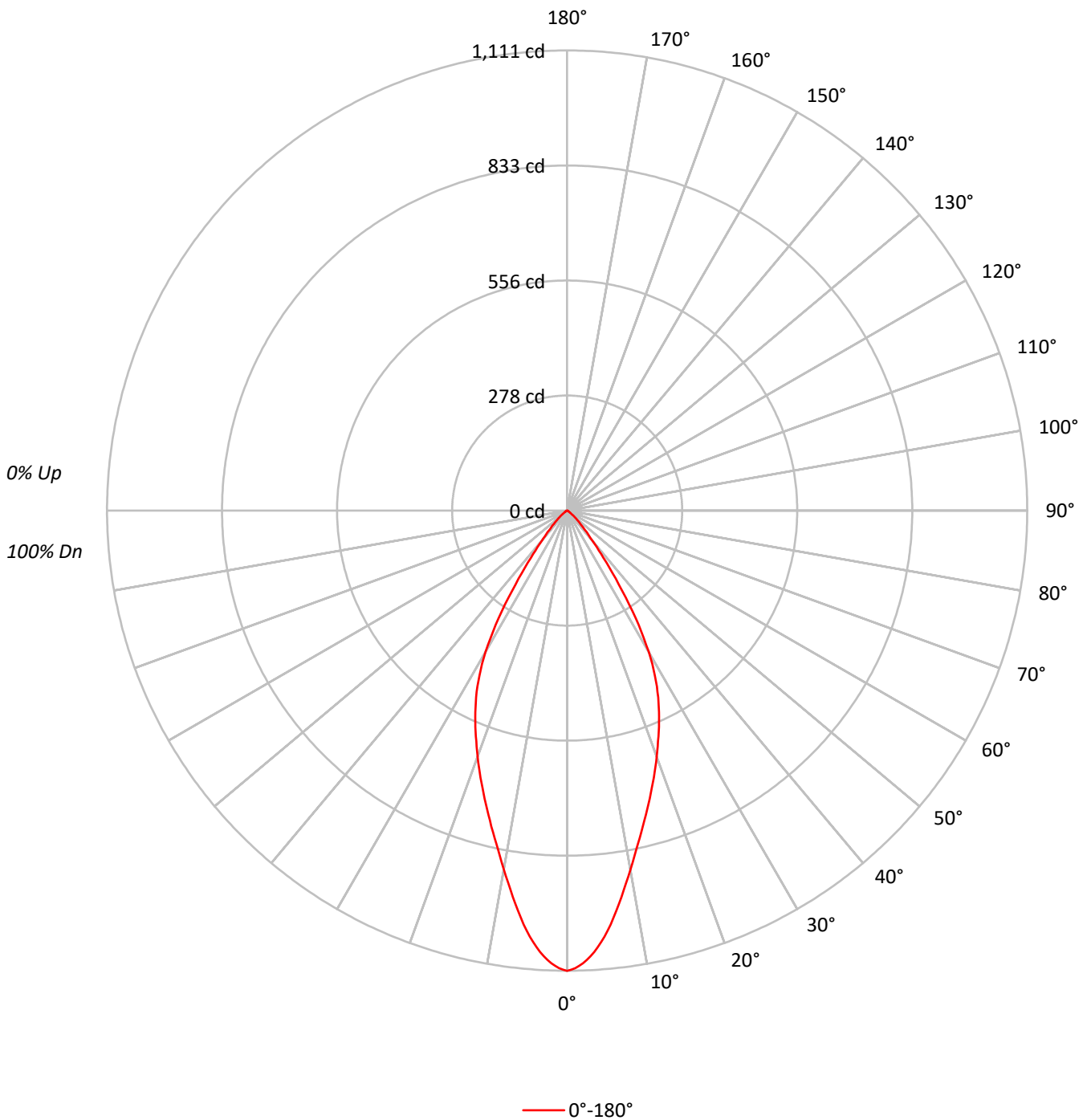
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	81	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°	34268
5°	31963
10°	27551
15°	23844
20°	20743
25°	17825
30°	14008
35°	8173
40°	3772
45°	1949
50°	979
55°	478
60°	241
65°	146
70°	63
75°	60
80°	36
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.5	12.8
10°-20°	208.8	28.7
20°-30°	237.4	32.6
30°-40°	139.5	19.2
40°-50°	37.4	5.1
50°-60°	8.9	1.2
60°-70°	2.0	0.3
70°-80°	0.4	0.1
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°	539.7	74.1
0°-40°	679.2	93.3
0°-60°	725.5	99.7
0°-90°	728.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	728.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1111	
5°	1033	93
15°	747	209
25°	524	237
35°	217	139
45°	45	37
55°	9	9
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1111.3
1°	1105.2
2°	1093.8
3°	1077.9
4°	1057.2
5°	1032.6
6°	1004.8
7°	973.4
8°	941.9
9°	910.2
10°	879.9
11°	850.4
12°	822.7
13°	796.8
14°	771.0
15°	746.9
16°	723.3
17°	700.0
18°	677.4
19°	654.5
20°	632.1
21°	609.7
22°	588.3
23°	567.2
24°	545.6
25°	523.9
26°	501.6
27°	477.2
28°	451.6
29°	423.6
30°	393.4
32.5°	308.6
35°	217.1
37.5°	143.1
40°	93.7
42.5°	64.7
45°	44.7
47.5°	30.7
50°	20.4
52.5°	13.3
55°	8.9
57.5°	5.9
60°	3.9
62.5°	2.7
65°	2.0



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	1.2
70°	0.7
72.5°	0.5
75°	0.5
77.5°	0.2
80°	0.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)