

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: P249806

Luminaire Tested: **LSR8B90D010 EC8B90840 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249806
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13959)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90840 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: 8435.1 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.81
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

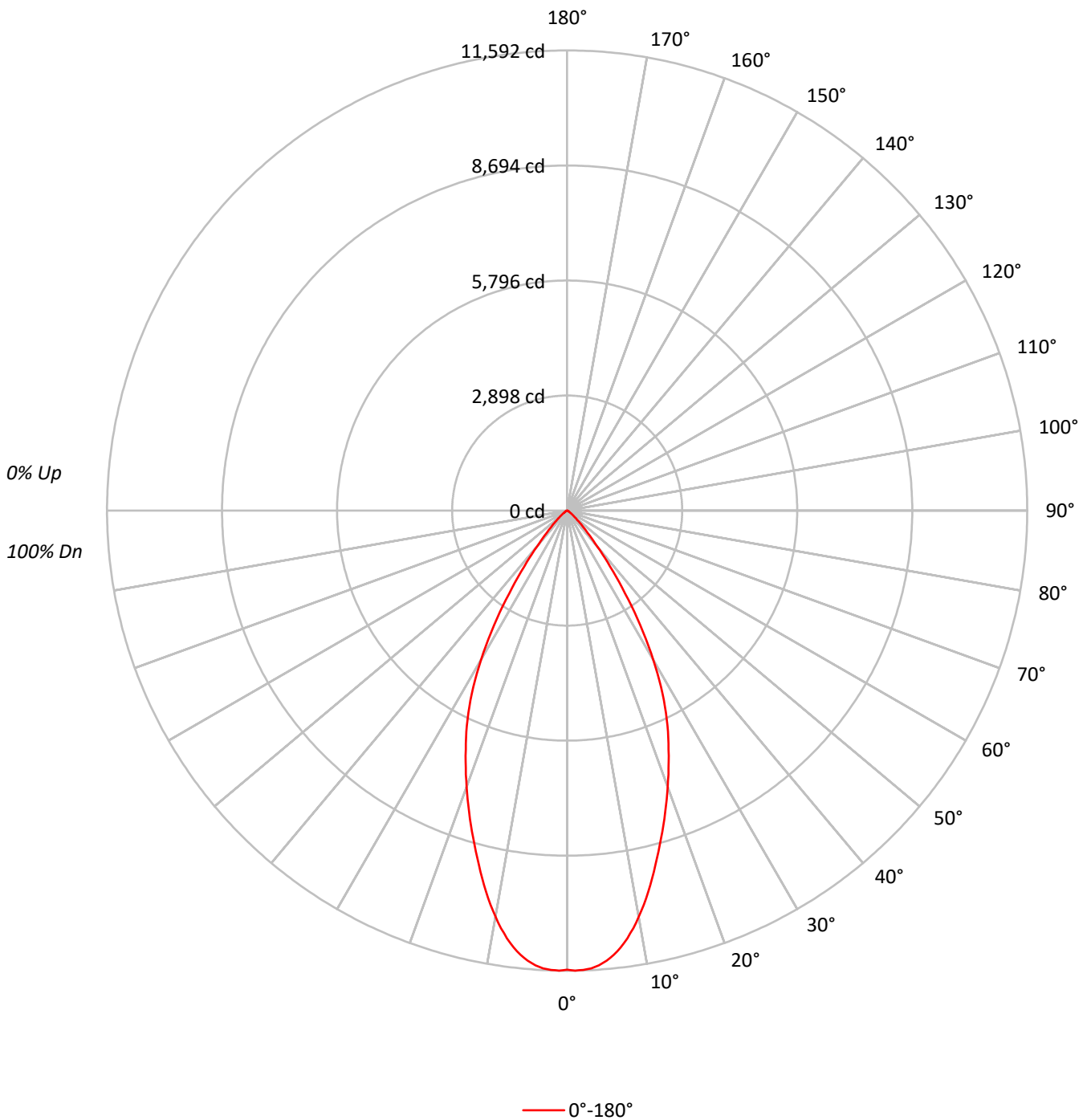
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	103	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	85	83	82
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74	81	77	74	79	76	73	71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	84	75	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63
8	81	71	65	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	57	64	60	57	56
10	73	64	58	55	72	64	58	55	63	58	54	62	57	54	61	57	54	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	356751
5°	352369
10°	325429
15°	283767
20°	243073
25°	203468
30°	154797
35°	95955
40°	47339
45°	22533
50°	10957
55°	5371
60°	3343
65°	2291
70°	1289
75°	1025
80°	1012
85°	1026



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1055.0	12.5
10°-20°	2476.8	29.4
20°-30°	2707.0	32.1
30°-40°	1610.9	19.1
40°-50°	441.9	5.2
50°-60°	100.1	1.2
60°-70°	30.9	0.4
70°-80°	9.4	0.1
80°-90°	3.1	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°	6238.7	74.0
0°-40°	7849.6	93.1
0°-60°	8391.6	99.5
0°-90°	8435.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8435.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11569	
5°	11384	###
15°	8889	2477
25°	5980	2707
35°	2549	1611
45°	517	442
55°	100	100
65°	31	31
75°	9	9
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	11569.2
1°	11592.0
2°	11577.7
3°	11549.2
4°	11483.5
5°	11383.6
6°	11255.2
7°	11083.9
8°	10884.1
9°	10652.9
10°	10393.1
11°	10116.2
12°	9819.4
13°	9513.9
14°	9197.1
15°	8888.8
16°	8586.2
17°	8289.4
18°	7992.5
19°	7695.6
20°	7407.3
22.5°	6682.3
25°	5980.1
27.5°	5206.5
30°	4347.4
32.5°	3425.4
35°	2549.0
37.5°	1772.6
40°	1176.0
42.5°	770.7
45°	516.7
47.5°	342.5
50°	228.4
52.5°	139.9
55°	99.9
57.5°	71.4
60°	54.2
62.5°	40.0
65°	31.4
67.5°	20.0
70°	14.3
72.5°	11.4
75°	8.6
77.5°	5.7
80°	5.7



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	2.9
85°	2.9
87.5°	2.9
90°	0.0

(END OF REPORT)