

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: P249799

Luminaire Tested: **LSR8B90D010 EC8B90835 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249799
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 EC8B90835 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8490.0 lumens
Efficiency: N/A
Efficacy: 98.6 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

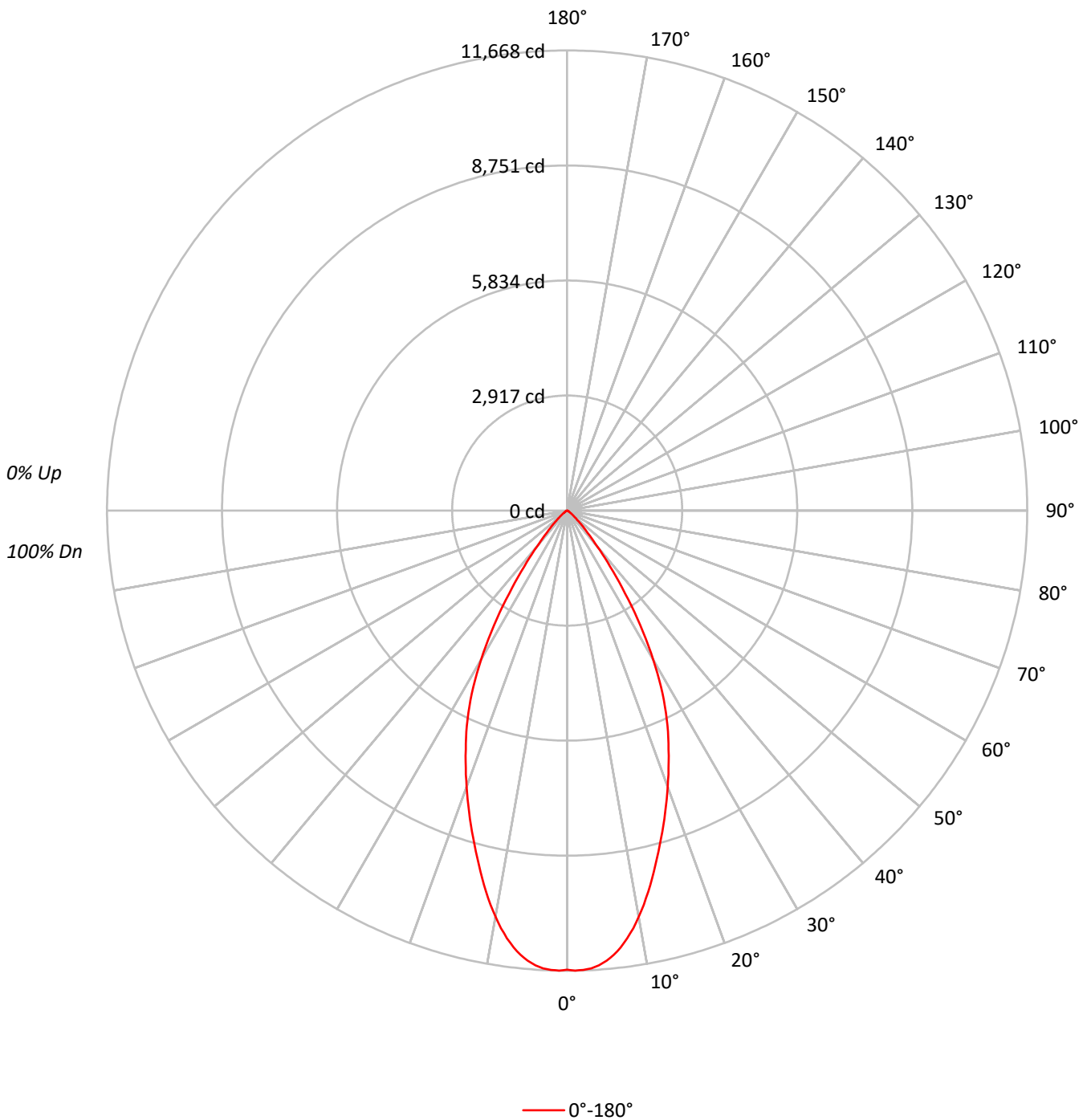
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249799

CATALOG NUMBER: LSR8B90D010 EC8B90835 8LBN0H

Luminous Intensity Polar Plot





TEST NUMBER: P249799

CATALOG NUMBER: LSR8B90D010 EC8B90835 8LBN0H

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°	359077
5°	354666
10°	327552
15°	285619
20°	244658
25°	204795
30°	155804
35°	96584
40°	47649
45°	22677
50°	11024
55°	5408
60°	3367
65°	2306
70°	1298
75°	1025
80°	1012
85°	1026



TEST NUMBER: P249799

CATALOG NUMBER: LSR8B90D010 EC8B90835 8LBN0H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1061.9	12.5
10°-20°	2492.9	29.4
20°-30°	2724.6	32.1
30°-40°	1621.4	19.1
40°-50°	444.7	5.2
50°-60°	100.8	1.2
60°-70°	31.1	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°	6279.4	74.0
0°-40°	7900.8	93.1
0°-60°	8446.3	99.5
0°-90°	8490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8490.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11645	
5°	11458	###
15°	8947	2493
25°	6019	2725
35°	2566	1621
45°	520	445
55°	101	101
65°	32	31
75°	9	9
85°	3	3
90°	0	



TEST NUMBER: P249799

CATALOG NUMBER: LSR8B90D010 EC8B90835 8LBN0H

CANDELA DISTRIBUTION (FULL):

0°	
0°	11644.6
1°	11667.6
2°	11653.2
3°	11624.5
4°	11558.4
5°	11457.8
6°	11328.5
7°	11156.2
8°	10955.0
9°	10722.3
10°	10460.9
11°	10182.2
12°	9883.4
13°	9576.0
14°	9257.1
15°	8946.8
16°	8642.2
17°	8343.4
18°	8044.6
19°	7745.8
20°	7455.6
22.5°	6725.9
25°	6019.1
27.5°	5240.5
30°	4375.7
32.5°	3447.7
35°	2565.7
37.5°	1784.2
40°	1183.7
42.5°	775.7
45°	520.0
47.5°	344.8
50°	229.8
52.5°	140.8
55°	100.6
57.5°	71.8
60°	54.6
62.5°	40.2
65°	31.6
67.5°	20.1
70°	14.4
72.5°	11.5
75°	8.6
77.5°	5.7
80°	5.7



TEST NUMBER: P249799

CATALOG NUMBER: LSR8B90D010 EC8B90835 8LBN0H

CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)