

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: P249785

Luminaire Tested: **LSR8B90D010 EC8B90827 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249785
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 EC8B90827 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7965.0 lumens
Efficiency: N/A
Efficacy: 92.5 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

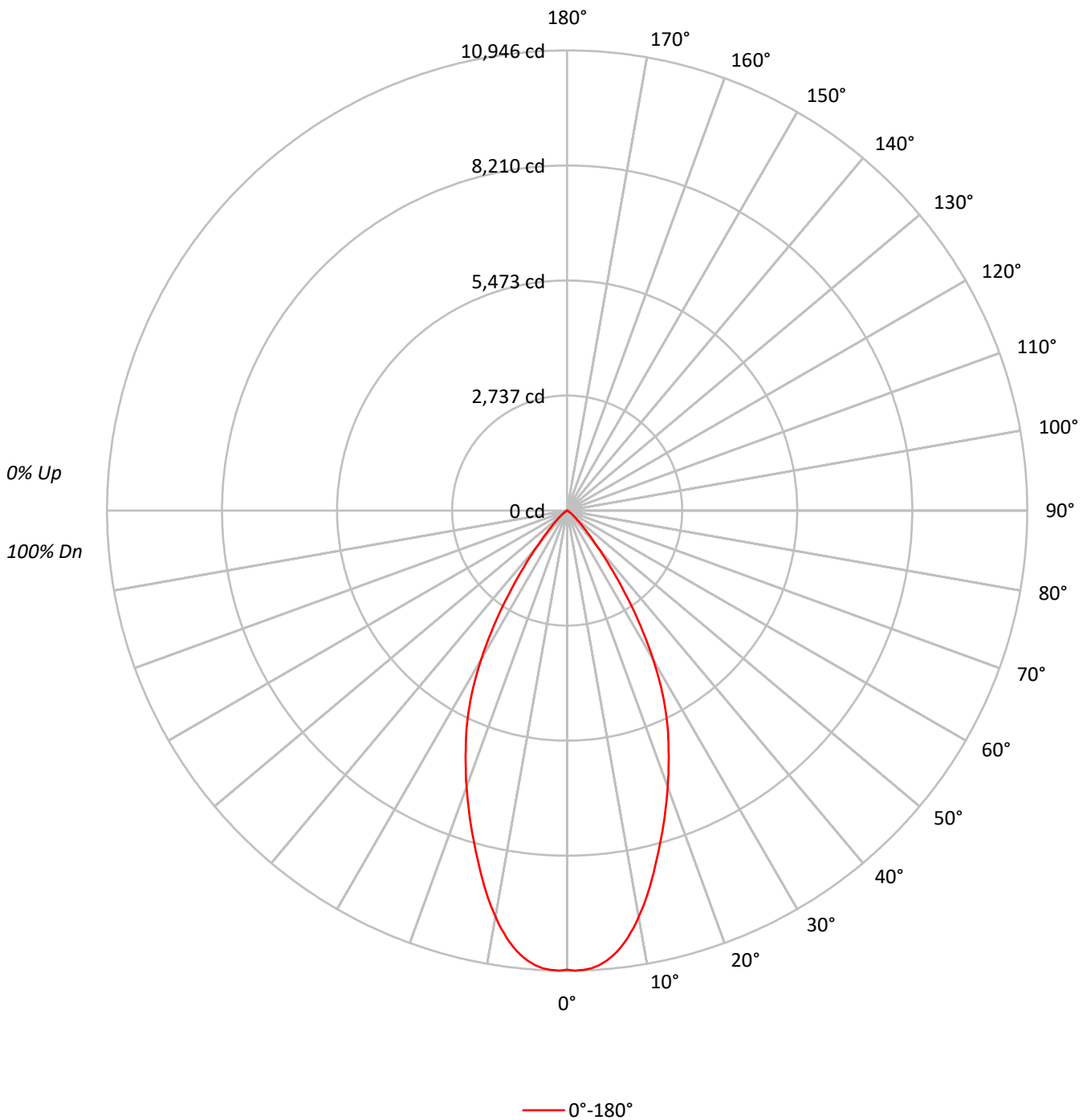
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249785

CATALOG NUMBER: LSR8B90D010 EC8B90827 8LBN0H

Luminous Intensity Polar Plot





TEST NUMBER: P249785

CATALOG NUMBER: LSR8B90D010 EC8B90827 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°	336871
5°	332735
10°	307296
15°	267955
20°	229530
25°	192131
30°	146169
35°	90610
40°	44702
45°	21277
50°	10343
55°	5070
60°	3158
65°	2160
70°	1217
75°	965
80°	959
85°	955



TEST NUMBER: P249785

CATALOG NUMBER: LSR8B90D010 EC8B90827 8LBN0H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	996.2	12.5
10°-20°	2338.8	29.4
20°-30°	2556.2	32.1
30°-40°	1521.1	19.1
40°-50°	417.2	5.2
50°-60°	94.5	1.2
60°-70°	29.2	0.4
70°-80°	8.9	0.1
80°-90°	2.9	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°	5891.1	74.0
0°-40°	7412.2	93.1
0°-60°	7924.0	99.5
0°-90°	7965.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7965.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10924	
5°	10749	996
15°	8394	2339
25°	5647	2556
35°	2407	1521
45°	488	417
55°	94	95
65°	30	29
75°	8	9
85°	3	3
90°	0	



TEST NUMBER: P249785

CATALOG NUMBER: LSR8B90D010 EC8B90827 8LBN0H

CANDELA DISTRIBUTION (FULL):

	0°
0°	10924.5
1°	10946.1
2°	10932.6
3°	10905.6
4°	10843.7
5°	10749.3
6°	10628.0
7°	10466.3
8°	10277.6
9°	10059.3
10°	9814.0
11°	9552.5
12°	9272.2
13°	8983.8
14°	8684.6
15°	8393.5
16°	8107.8
17°	7827.5
18°	7547.2
19°	7266.8
20°	6994.6
22.5°	6310.0
25°	5646.9
27.5°	4916.4
30°	4105.1
32.5°	3234.5
35°	2407.0
37.5°	1673.9
40°	1110.5
42.5°	727.8
45°	487.9
47.5°	323.4
50°	215.6
52.5°	132.1
55°	94.3
57.5°	67.4
60°	51.2
62.5°	37.7
65°	29.6
67.5°	18.9
70°	13.5
72.5°	10.8
75°	8.1
77.5°	5.4
80°	5.4



TEST NUMBER: P249785

CATALOG NUMBER: LSR8B90D010 EC8B90827 8LBN0H

CANDELA DISTRIBUTION (continued):

	0°
82.5°	2.7
85°	2.7
87.5°	2.7
90°	0.0

(END OF REPORT)