

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: P249787

Luminaire Tested: **LD8B120D010 ER8B120827 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249787
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: LD8B120D010 ER8B120827 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10418.0 lumens
Efficiency: N/A
Efficacy: 88.1 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

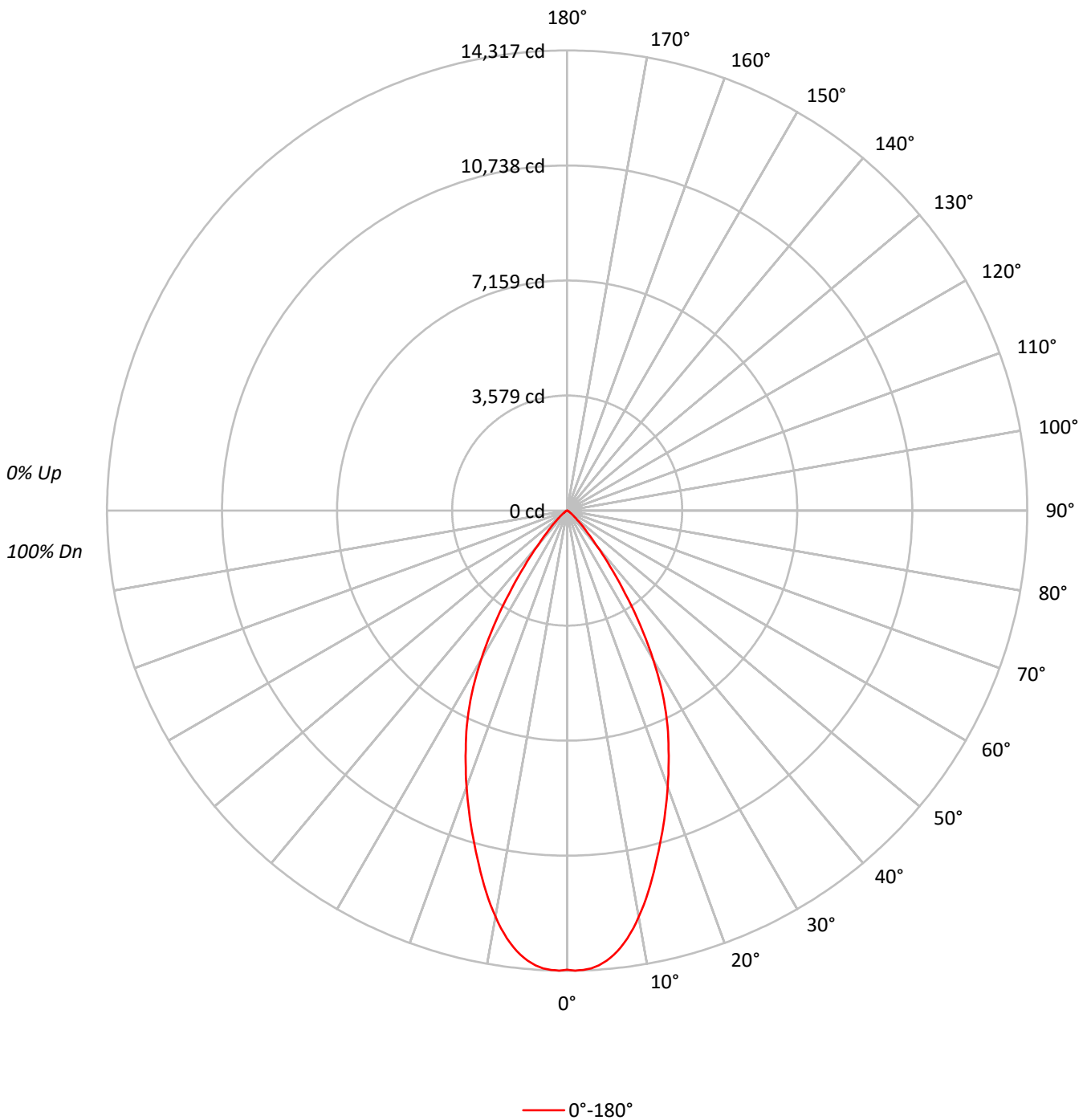
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249787

CATALOG NUMBER: LD8B120D010 ER8B120827 8LBN0H

Luminous Intensity Polar Plot





TEST NUMBER: P249787

CATALOG NUMBER: LD8B120D010 ER8B120827 8LBNOH

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°	440620
5°	435209
10°	401934
15°	350479
20°	300218
25°	251302
30°	191187
35°	118515
40°	58469
45°	27827
50°	13528
55°	6634
60°	4132
65°	2831
70°	1587
75°	1263
80°	1261
85°	1238



TEST NUMBER: P249787

CATALOG NUMBER: LD8B120D010 ER8B120827 8LBNOH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1303.0	12.5
10°-20°	3059.0	29.4
20°-30°	3343.4	32.1
30°-40°	1989.6	19.1
40°-50°	545.7	5.2
50°-60°	123.6	1.2
60°-70°	38.2	0.4
70°-80°	11.6	0.1
80°-90°	3.8	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°	7705.4	74.0
0°-40°	9695.0	93.1
0°-60°	10364.4	99.5
0°-90°	10418.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10418.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14289	
5°	14060	###
15°	10978	3059
25°	7386	3343
35°	3148	1990
45°	638	546
55°	123	124
65°	39	38
75°	11	12
85°	4	4
90°	0	



TEST NUMBER: P249787

CATALOG NUMBER: LD8B120D010 ER8B120827 8LBNOH

CANDELA DISTRIBUTION (FULL):

	0°
0°	14289.0
1°	14317.2
2°	14299.5
3°	14264.3
4°	14183.2
5°	14059.8
6°	13901.2
7°	13689.6
8°	13442.8
9°	13157.3
10°	12836.4
11°	12494.5
12°	12127.8
13°	11750.6
14°	11359.3
15°	10978.5
16°	10604.8
17°	10238.1
18°	9871.5
19°	9504.8
20°	9148.7
22.5°	8253.3
25°	7386.0
27.5°	6430.6
30°	5369.4
32.5°	4230.6
35°	3148.3
37.5°	2189.4
40°	1452.5
42.5°	951.9
45°	638.1
47.5°	423.1
50°	282.0
52.5°	172.8
55°	123.4
57.5°	88.1
60°	67.0
62.5°	49.4
65°	38.8
67.5°	24.7
70°	17.6
72.5°	14.1
75°	10.6
77.5°	7.1
80°	7.1



TEST NUMBER: P249787

CATALOG NUMBER: LD8B120D010 ER8B120827 8LBNOH

CANDELA DISTRIBUTION (continued):

	0°
82.5°	3.5
85°	3.5
87.5°	3.5
90°	0.0

(END OF REPORT)