

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: P249975

Luminaire Tested: **LD8B100D010 ER8B100840 8LBN0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249975
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13951)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B100D010 ER8B100840 8LBN0WMH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9518.9 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.79
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

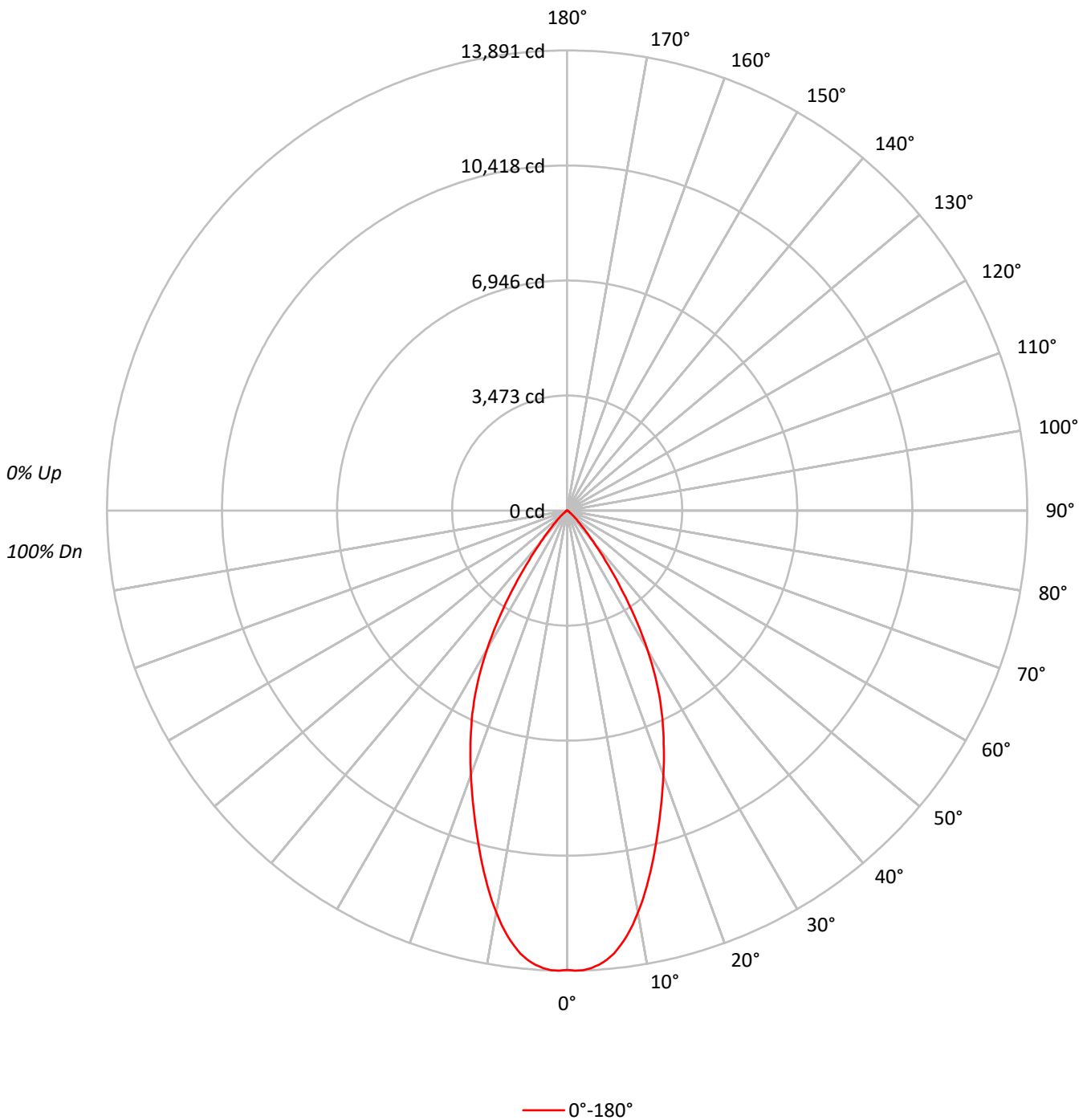
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249975

CATALOG NUMBER: LD8B100D010 ER8B100840 8LBN0WMH

Luminous Intensity Polar Plot





TEST NUMBER: P249975

CATALOG NUMBER: LD8B100D010 ER8B100840 8LBNOWMH

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	107	111	109	107	105	105	103	102		101	100	99		98	97	96	94
2	108	104	100	97	106	102	99	96	99	96	93		96	94	91		93	91	90	88
3	103	97	92	89	101	96	91	88	93	89	86		91	88	85		89	86	84	82
4	98	91	86	82	97	90	85	81	88	84	80		86	82	79		84	81	79	77
5	94	86	80	76	92	85	80	76	83	78	75		81	77	74		80	76	74	72
6	89	81	75	71	88	80	75	71	79	74	70		77	73	70		76	72	69	68
7	85	76	71	67	84	76	70	66	74	70	66		73	69	66		72	68	65	64
8	81	72	66	63	80	72	66	62	71	66	62		70	65	62		69	65	62	60
9	78	68	63	59	77	68	63	59	67	62	59		66	62	58		65	61	58	57
10	74	65	59	56	73	65	59	56	64	59	56		63	59	55		62	58	55	54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	427533
5°	421579
10°	385686
15°	331142
20°	278855
25°	230398
30°	172817
35°	103013
40°	49078
45°	21382
50°	9695
55°	4269
60°	2448
65°	1452
70°	1497
75°	0
80°	586
85°	2335



TEST NUMBER: P249975

CATALOG NUMBER: LD8B100D010 ER8B100840 8LBN0WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1258.4	13.2
10°-20°	2887.2	30.3
20°-30°	3067.3	32.2
30°-40°	1750.0	18.4
40°-50°	433.9	4.6
50°-60°	85.3	0.9
60°-70°	25.7	0.3
70°-80°	6.1	0.1
80°-90°	4.9	0.1
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°	7212.9	75.8
0°-40°	8962.9	94.2
0°-60°	9482.1	99.6
0°-90°	9518.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9518.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13865	
5°	13620	###
15°	10373	2887
25°	6772	3067
35°	2736	1750
45°	490	434
55°	79	85
65°	20	26
75°	0	6
85°	7	5
90°	0	



TEST NUMBER: P249975

CATALOG NUMBER: LD8B100D010 ER8B100840 8LBN0WMH

CANDELA DISTRIBUTION (FULL):

	0°
0°	13864.6
1°	13891.2
2°	13881.3
3°	13831.6
4°	13745.5
5°	13619.5
6°	13453.9
7°	13225.3
8°	12963.5
9°	12655.5
10°	12317.5
11°	11959.8
12°	11575.4
13°	11184.5
14°	10783.6
15°	10372.8
16°	9985.2
17°	9594.3
18°	9226.5
19°	8852.2
20°	8497.7
22.5°	7619.7
25°	6771.6
27.5°	5860.7
30°	4853.5
32.5°	3773.4
35°	2736.5
37.5°	1885.0
40°	1219.2
42.5°	772.0
45°	490.3
47.5°	321.4
50°	202.1
52.5°	122.6
55°	79.4
57.5°	63.0
60°	39.7
62.5°	36.4
65°	19.9
67.5°	19.9
70°	16.6
72.5°	10.0
75°	0.0
77.5°	3.3
80°	3.3



TEST NUMBER: P249975

CATALOG NUMBER: LD8B100D010 ER8B100840 8LBN0WMH

CANDELA DISTRIBUTION (continued):

	0°
82.5°	6.6
85°	6.6
87.5°	3.3
90°	0.0

(END OF REPORT)