

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: P249851

Luminaire Tested: **LD8B150D010 ER8B150950 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249851
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: LD8B150D010 ER8B150950 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13142.0 lumens
Efficiency: N/A
Efficacy: 82.9 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

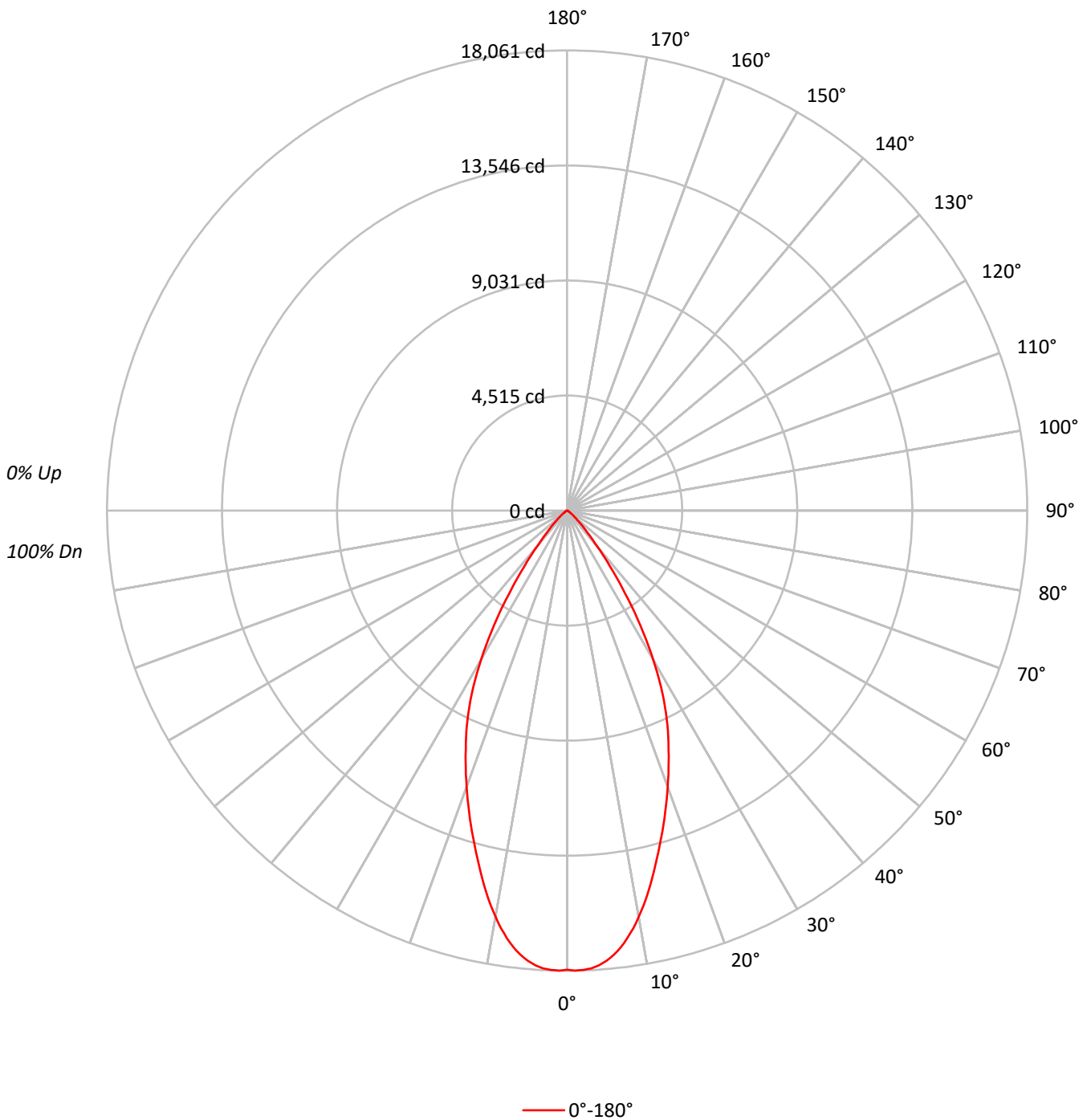
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249851

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBN0H

Luminous Intensity Polar Plot





TEST NUMBER: P249851

CATALOG NUMBER: LD8B150D010 ER8B150950 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°	555828
5°	549002
10°	507029
15°	442117
20°	378718
25°	317009
30°	241175
35°	149504
40°	73757
45°	35105
50°	17069
55°	8371
60°	5211
65°	3568
70°	2002
75°	1585
80°	1580
85°	1557



TEST NUMBER: P249851

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBNOH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1643.7	12.5
10°-20°	3858.9	29.4
20°-30°	4217.6	32.1
30°-40°	2509.8	19.1
40°-50°	688.4	5.2
50°-60°	156.0	1.2
60°-70°	48.2	0.4
70°-80°	14.6	0.1
80°-90°	4.8	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°	9720.1	74.0
0°-40°	12230.0	93.1
0°-60°	13074.4	99.5
0°-90°	13142.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13142.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	18025	
5°	17736	###
15°	13849	3859
25°	9317	4218
35°	3972	2510
45°	805	688
55°	156	156
65°	49	48
75°	13	15
85°	4	5
90°	0	



TEST NUMBER: P249851

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBNOH

CANDELA DISTRIBUTION (FULL):

	0°
0°	18025.1
1°	18060.7
2°	18038.4
3°	17994.0
4°	17891.7
5°	17736.0
6°	17535.9
7°	17269.1
8°	16957.7
9°	16597.5
10°	16192.8
11°	15761.4
12°	15298.9
13°	14823.0
14°	14329.4
15°	13849.0
16°	13377.6
17°	12915.1
18°	12452.6
19°	11990.1
20°	11540.9
22.5°	10411.2
25°	9317.2
27.5°	8112.0
30°	6773.3
32.5°	5336.8
35°	3971.5
37.5°	2761.8
40°	1832.3
42.5°	1200.8
45°	805.0
47.5°	533.7
50°	355.8
52.5°	217.9
55°	155.7
57.5°	111.2
60°	84.5
62.5°	62.3
65°	48.9
67.5°	31.1
70°	22.2
72.5°	17.8
75°	13.3
77.5°	8.9
80°	8.9



TEST NUMBER: P249851

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBN0H

CANDELA DISTRIBUTION (continued):

	0°
82.5°	4.4
85°	4.4
87.5°	4.4
90°	0.0

(END OF REPORT)