

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: P244321

Luminaire Tested: **LD8B15D010 ER8B15840 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27944)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B15D010 ER8B15840 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1407.0 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.79
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

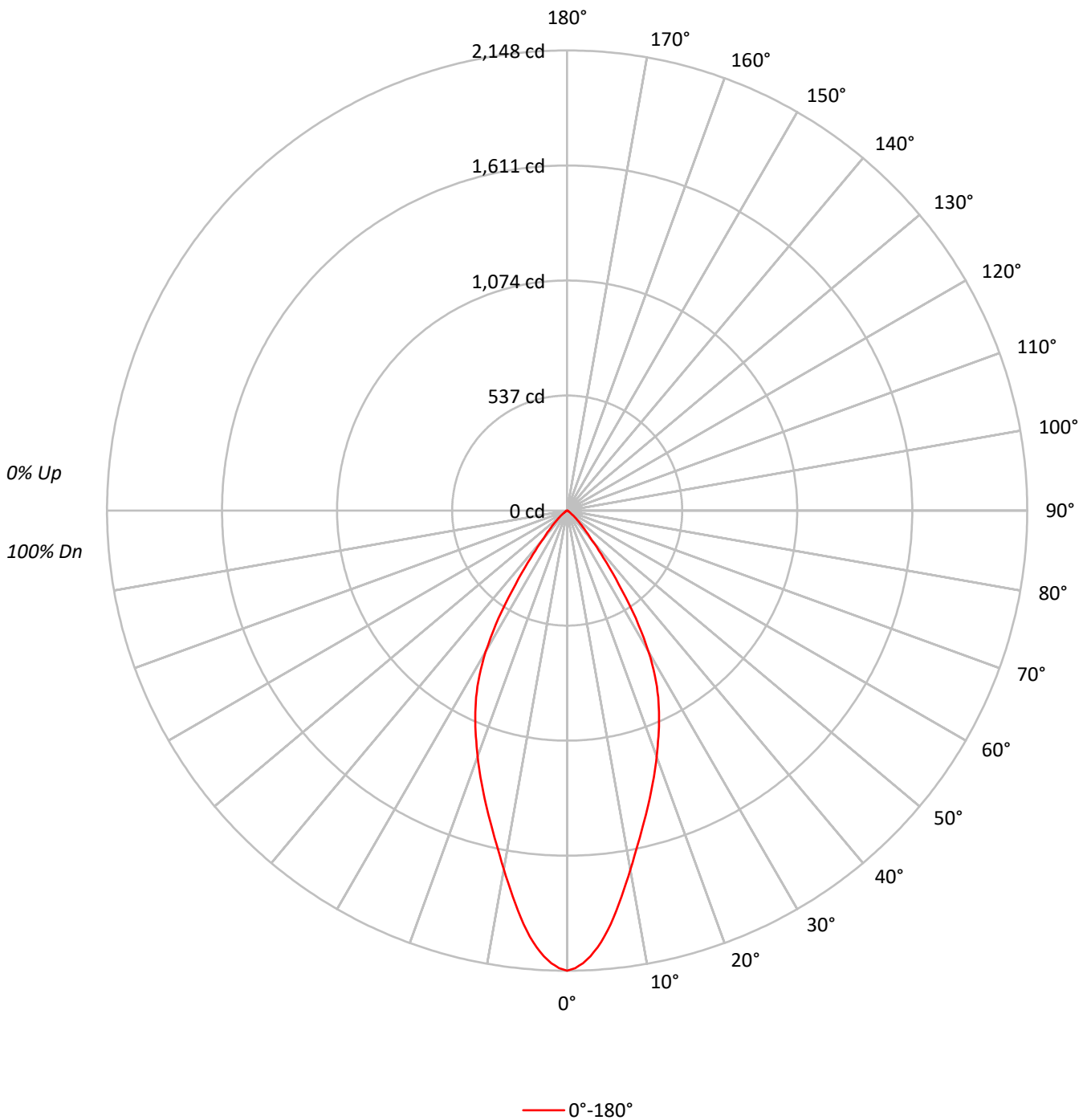
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	104	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	86	83	82
4	98	91	85	81	96	90	85	81	87	83	80		85	82	79		84	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74		81	77	74		79	76	73	72
6	89	80	74	70	87	79	74	70	78	73	69		76	72	69		75	71	69	67
7	85	76	70	66	83	75	69	65	74	69	65		72	68	65		71	67	64	63
8	81	71	66	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	58		64	60	57	56
10	74	64	59	55	73	64	58	55	63	58	55		62	58	54		61	57	54	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	66230
5°	61775
10°	53252
15°	46086
20°	40090
25°	34453
30°	27072
35°	15796
40°	7286
45°	3772
50°	1890
55°	919
60°	469
65°	277
70°	126
75°	119
80°	89
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	12.8
10°-20°	403.6	28.7
20°-30°	458.9	32.6
30°-40°	269.5	19.2
40°-50°	72.3	5.1
50°-60°	17.2	1.2
60°-70°	3.9	0.3
70°-80°	0.9	0.1
80°-90°	0.1	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°	1043.1	74.1
0°-40°	1312.7	93.3
0°-60°	1402.1	99.7
0°-90°	1407.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1407.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2148	
5°	1996	181
15°	1444	404
25°	1013	459
35°	420	270
45°	86	72
55°	17	17
65°	4	4
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2147.8
1°	2135.9
2°	2114.1
3°	2083.2
4°	2043.3
5°	1995.7
6°	1942.0
7°	1881.2
8°	1820.4
9°	1759.1
10°	1700.7
11°	1643.6
12°	1589.9
13°	1540.0
14°	1490.2
15°	1443.6
16°	1398.0
17°	1352.8
18°	1309.1
19°	1264.9
20°	1221.7
21°	1178.4
22°	1137.1
23°	1096.2
24°	1054.4
25°	1012.6
26°	969.4
27°	922.3
28°	872.9
29°	818.7
30°	760.3
32.5°	596.3
35°	419.6
37.5°	276.6
40°	181.0
42.5°	125.0
45°	86.5
47.5°	59.4
50°	39.4
52.5°	25.7
55°	17.1
57.5°	11.4
60°	7.6
62.5°	5.2
65°	3.8



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	2.4
70°	1.4
72.5°	1.0
75°	1.0
77.5°	0.5
80°	0.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)