

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: P250686

Luminaire Tested: **LD8B200D010 ER8B200940 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250686
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P131425)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200940 8LBN0MW
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17231.0 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

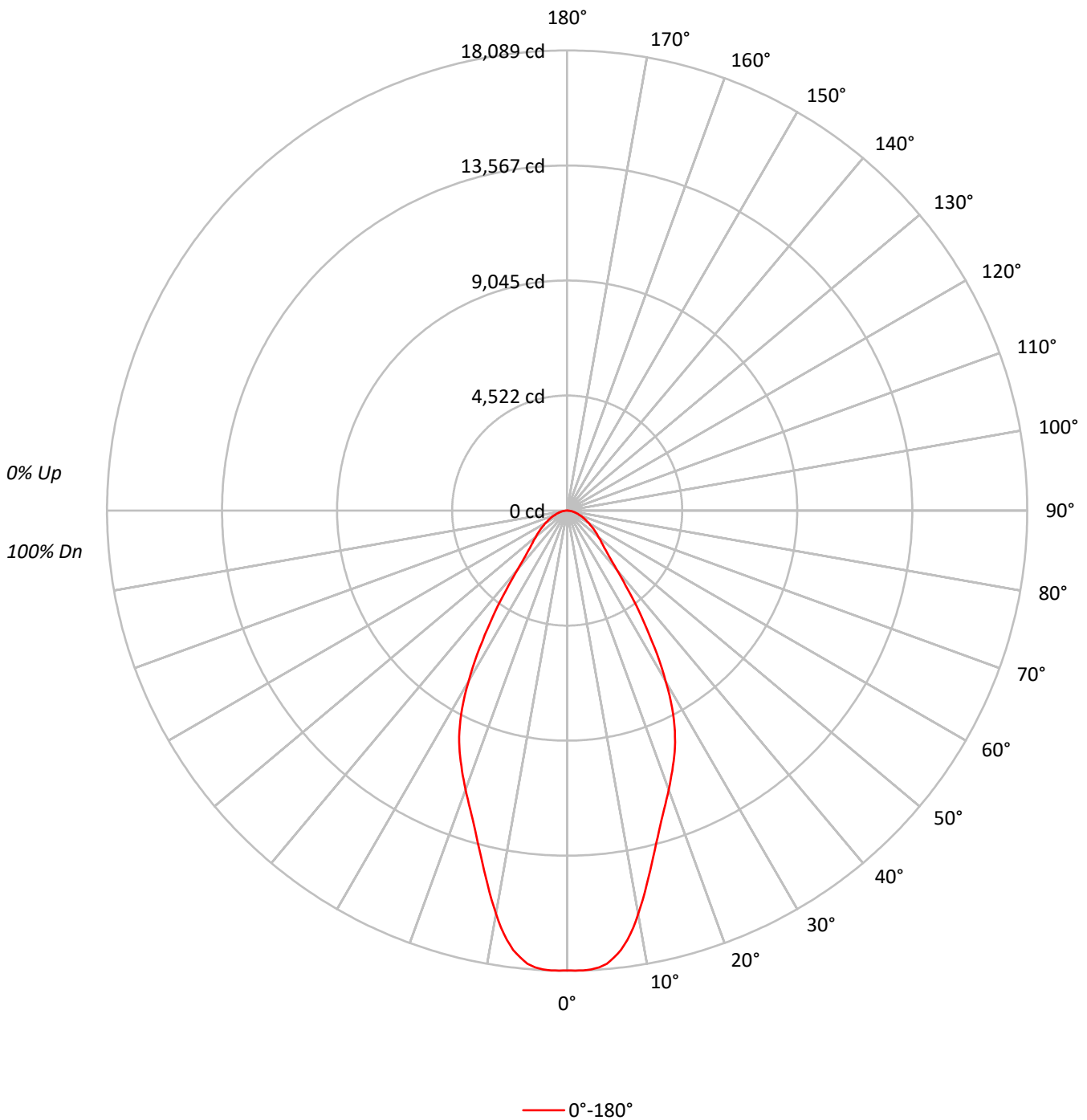
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67
5	87	78	71	66	85	77	70	65	75	69	65	73	68	64	71	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	557447
5°	553447
10°	504246
15°	432310
20°	383030
25°	341772
30°	276027
35°	191658
40°	121507
45°	90153
50°	77020
55°	67691
60°	60353
65°	54155
70°	46603
75°	42593
80°	40026
85°	35027



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1650.2	9.6
10°-20°	3807.7	22.1
20°-30°	4538.2	26.3
30°-40°	3203.4	18.6
40°-50°	1654.3	9.6
50°-60°	1135.3	6.6
60°-70°	738.0	4.3
70°-80°	386.4	2.2
80°-90°	117.4	0.7
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°	9996.1	58.0
0°-40°	13199.5	76.6
0°-60°	15989.2	92.8
0°-90°	17231.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17231.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	18078	
5°	17880	###
15°	13542	3808
25°	10045	4538
35°	5091	3203
45°	2067	1654
55°	1259	1135
65°	742	738
75°	358	386
85°	99	117
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	18077.6
1°	18088.7
2°	18088.7
3°	18061.1
4°	18000.7
5°	17879.6
6°	17665.3
7°	17401.3
8°	17038.4
9°	16598.7
10°	16103.9
11°	15581.5
12°	15037.0
13°	14514.9
14°	14009.1
15°	13541.8
16°	13107.4
17°	12706.1
18°	12343.1
19°	12002.2
20°	11672.3
21°	11348.0
22°	11029.1
23°	10710.3
24°	10385.9
25°	10045.0
26°	9660.0
27°	9242.1
28°	8785.9
29°	8302.1
30°	7752.1
31°	7219.0
32°	6674.5
33°	6113.8
34°	5596.9
35°	5091.3
37.5°	3920.2
40°	3018.5
42.5°	2430.2
45°	2067.3
47.5°	1808.8
50°	1605.5
52.5°	1429.6
55°	1259.1
57.5°	1105.2



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CANDELA DISTRIBUTION (continued):

	0°
60°	978.6
62.5°	852.3
65°	742.2
67.5°	643.2
70°	516.9
72.5°	445.4
75°	357.5
77.5°	291.3
80°	225.4
82.5°	164.9
85°	99.0
87.5°	54.9
90°	0.0

(END OF REPORT)