

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: P246728

Luminaire Tested: **LD8B20D010 ER8B20940 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201674)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B20D010 ER8B20940 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1938.0 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

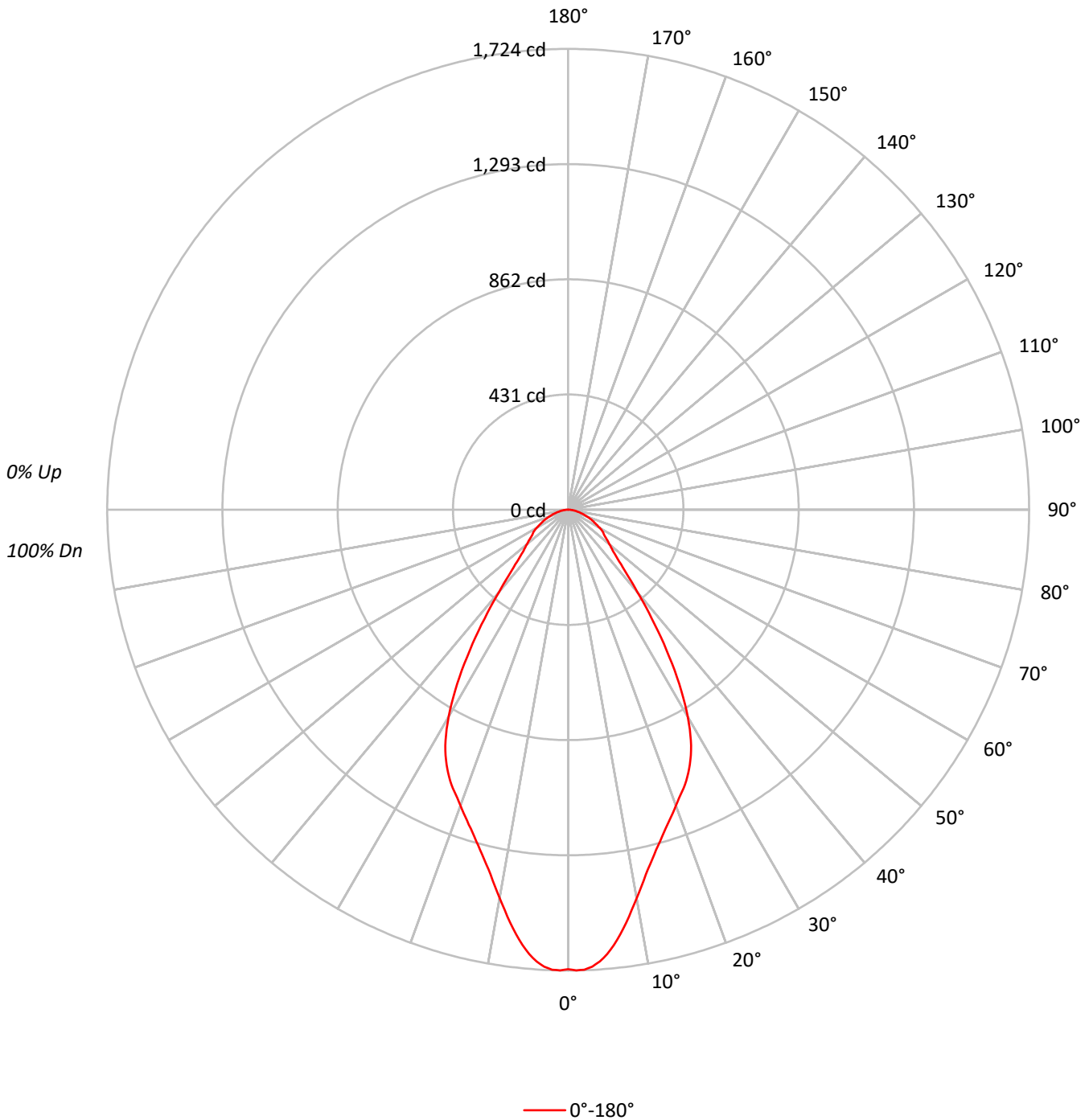
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85		90	86	83		87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76		82	78	75		80	76	73	71
4	91	82	75	69	89	80	74	69	78	72	68		76	71	67		74	70	66	65
5	85	75	68	63	83	74	67	62	72	66	62		70	65	61		69	64	60	59
6	80	69	62	57	78	68	62	57	67	61	56		65	60	56		64	59	55	54
7	75	64	57	52	74	64	57	52	62	56	52		61	55	51		60	55	51	49
8	71	60	53	48	70	59	53	48	58	52	48		57	51	47		56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44		54	48	44		53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41		50	45	41		50	45	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	53014
5°	51669
10°	46191
15°	41508
20°	38656
25°	36416
30°	31840
35°	24126
40°	16202
45°	11421
50°	9686
55°	8833
60°	8369
65°	7530
70°	6771
75°	6088
80°	5363
85°	5166



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.8	7.9
10°-20°	366.7	18.9
20°-30°	485.9	25.1
30°-40°	398.4	20.6
40°-50°	212.2	11.0
50°-60°	149.4	7.7
60°-70°	103.0	5.3
70°-80°	53.6	2.8
80°-90°	15.9	0.8
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°	1005.4	51.9
0°-40°	1403.8	72.4
0°-60°	1765.4	91.1
0°-90°	1938.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1938.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1719	
5°	1669	153
15°	1300	367
25°	1070	486
35°	641	398
45°	262	212
55°	164	149
65°	103	103
75°	51	54
85°	15	16
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1719.2
1°	1724.0
2°	1722.0
3°	1711.8
4°	1694.3
5°	1669.2
6°	1637.8
7°	1600.2
8°	1559.8
9°	1516.8
10°	1475.2
11°	1435.4
12°	1395.0
13°	1361.3
14°	1329.4
15°	1300.2
16°	1272.8
17°	1247.4
18°	1224.0
19°	1200.5
20°	1178.0
21°	1156.1
22°	1137.0
23°	1117.5
24°	1094.5
25°	1070.3
26°	1042.9
27°	1012.0
28°	977.2
29°	938.6
30°	894.2
31°	847.7
32°	798.9
33°	746.9
34°	694.6
35°	640.9
37.5°	513.5
40°	402.5
42.5°	317.9
45°	261.9
47.5°	224.9
50°	201.9
52.5°	181.7
55°	164.3
57.5°	153.6



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CANDELA DISTRIBUTION (continued):

	0°
60°	135.7
62.5°	118.3
65°	103.2
67.5°	89.7
70°	75.1
72.5°	62.7
75°	51.1
77.5°	37.0
80°	30.2
82.5°	21.9
85°	14.6
87.5°	6.8
90°	0.0

(END OF REPORT)