

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: P244280

Luminaire Tested: **LSR8B20D010 EC8B20940 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244280
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27940)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B20D010 EC8B20940 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1942.0 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.12
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

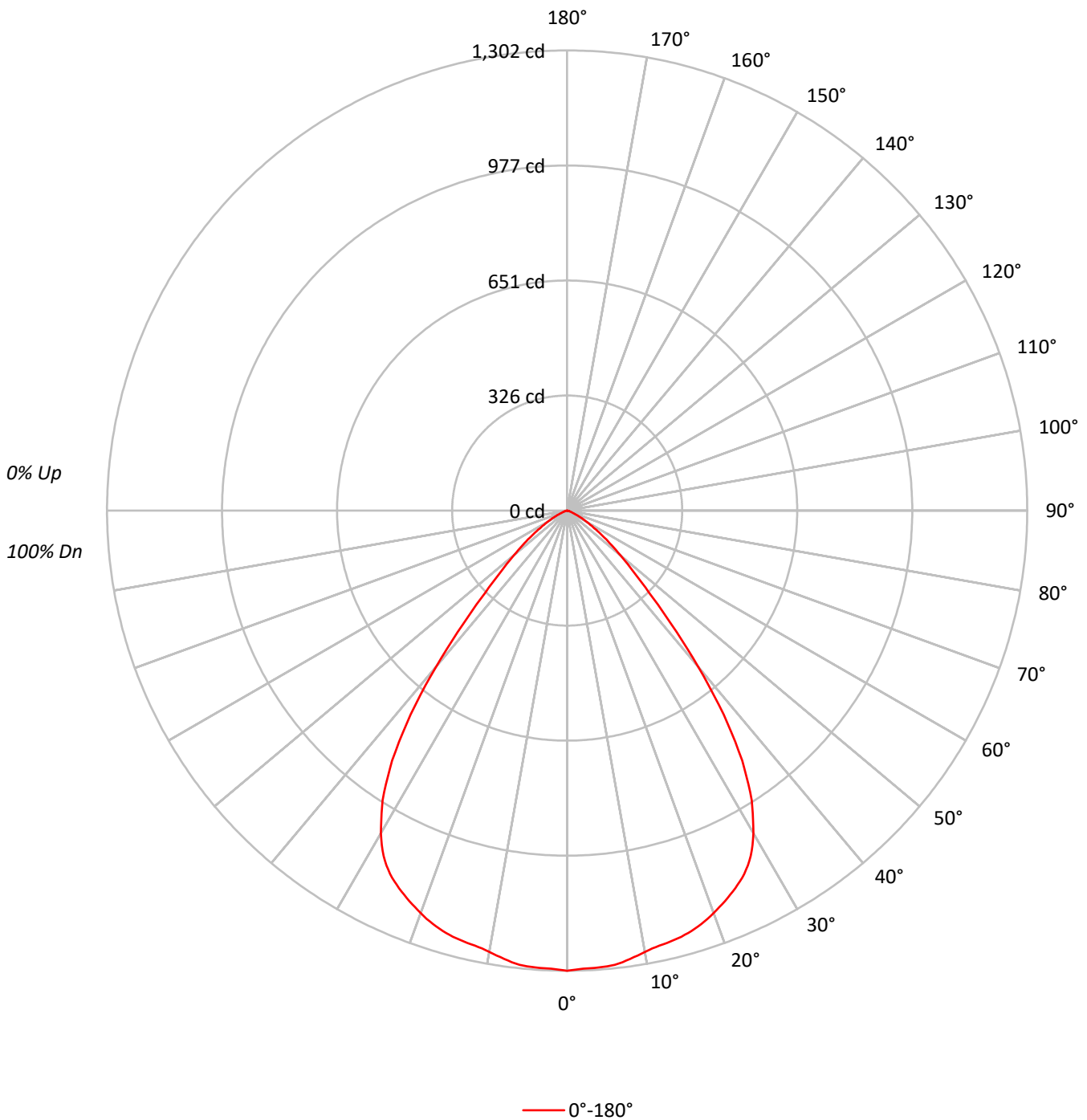
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	71	77	73	70	68
5	87	77	71	66	85	76	70	65	75	69	65	73	68	64	71	67	63	62
6	82	71	65	60	80	71	64	59	69	63	59	68	62	58	66	62	58	56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	62	57	53	52
8	72	61	54	50	71	61	54	50	60	54	49	58	53	49	57	53	49	47
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44
10	64	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	40155
5°	40064
10°	39701
15°	39851
20°	39766
25°	39380
30°	37533
35°	32498
40°	23182
45°	14247
50°	9398
55°	6215
60°	3978
65°	2167
70°	1064
75°	536
80°	302
85°	212



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.7	6.3
10°-20°	352.1	18.1
20°-30°	529.9	27.3
30°-40°	524.6	27.0
40°-50°	266.6	13.7
50°-60°	107.4	5.5
60°-70°	32.5	1.7
70°-80°	5.6	0.3
80°-90°	0.7	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°	1004.7	51.7
0°-40°	1529.3	78.7
0°-60°	1903.2	98.0
0°-90°	1942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1942.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1302	
5°	1294	123
15°	1248	352
25°	1157	530
35°	863	525
45°	327	267
55°	116	107
65°	30	33
75°	4	6
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1302.2
1°	1299.4
2°	1297.1
3°	1296.6
4°	1296.0
5°	1294.3
6°	1292.1
7°	1287.6
8°	1280.9
9°	1274.7
10°	1267.9
11°	1262.3
12°	1258.4
13°	1255.6
14°	1252.2
15°	1248.3
16°	1243.3
17°	1237.1
18°	1229.8
19°	1221.4
20°	1211.8
21°	1201.7
22°	1191.6
23°	1181.0
24°	1169.7
25°	1157.4
26°	1143.9
27°	1126.5
28°	1106.3
29°	1082.2
30°	1054.1
32.5°	972.2
35°	863.3
37.5°	727.4
40°	575.9
42.5°	435.0
45°	326.7
47.5°	249.8
50°	195.9
52.5°	152.1
55°	115.6
57.5°	85.9
60°	64.5
62.5°	46.0
65°	29.7



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	18.5
70°	11.8
72.5°	7.3
75°	4.5
77.5°	2.8
80°	1.7
82.5°	1.1
85°	0.6
87.5°	0.0
90°	0.0

(END OF REPORT)