

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: P246740

Luminaire Tested: **LSR8B20D010 EC8B209727 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246740
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: LSR8B20D010 EC8B209727 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1515.0 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

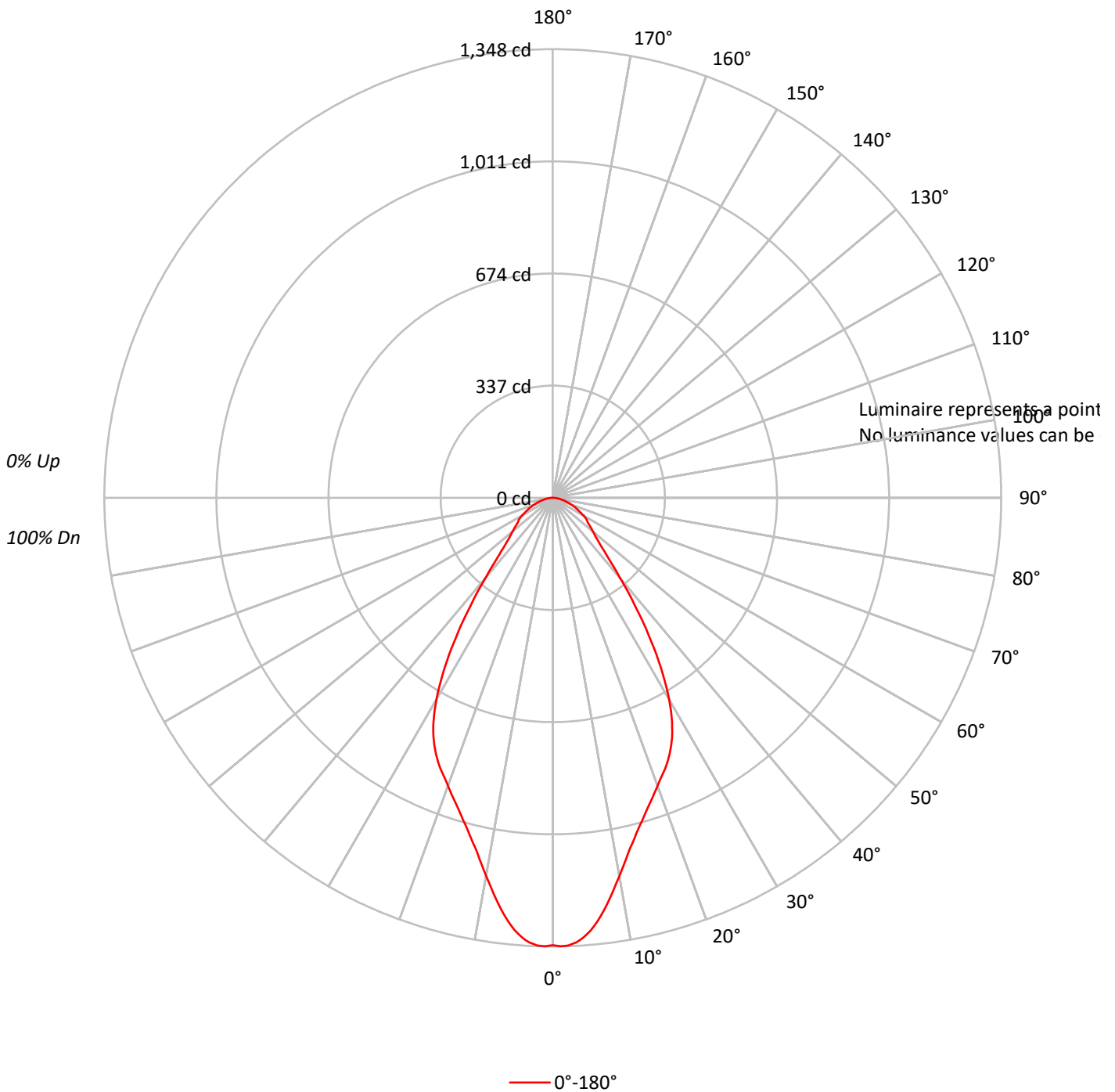
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





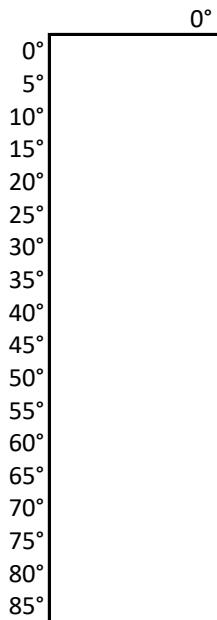
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	7.9
10°-20°	286.7	18.9
20°-30°	379.9	25.1
30°-40°	311.5	20.6
40°-50°	165.9	11.0
50°-60°	116.8	7.7
60°-70°	80.5	5.3
70°-80°	41.9	2.8
80°-90°	12.4	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°	785.9	51.9
0°-40°	1097.4	72.4
0°-60°	1380.1	91.1
0°-90°	1515.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1515.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1344	
5°	1305	119
15°	1016	287
25°	837	380
35°	501	311
45°	205	166
55°	128	117
65°	81	81
75°	40	42
85°	11	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1343.9
1°	1347.7
2°	1346.1
3°	1338.1
4°	1324.5
5°	1304.9
6°	1280.4
7°	1250.9
8°	1219.3
9°	1185.7
10°	1153.2
11°	1122.1
12°	1090.5
13°	1064.2
14°	1039.2
15°	1016.4
16°	995.0
17°	975.2
18°	956.8
19°	938.5
20°	920.9
21°	903.7
22°	888.8
23°	873.6
24°	855.6
25°	836.7
26°	815.3
27°	791.1
28°	763.9
29°	733.7
30°	699.0
31°	662.7
32°	624.5
33°	583.9
34°	543.0
35°	501.0
37.5°	401.5
40°	314.7
42.5°	248.5
45°	204.7
47.5°	175.8
50°	157.8
52.5°	142.1
55°	128.4
57.5°	120.1



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CANDELA DISTRIBUTION (continued):

	0°
60°	106.1
62.5°	92.5
65°	80.7
67.5°	70.1
70°	58.7
72.5°	49.0
75°	40.0
77.5°	28.9
80°	23.6
82.5°	17.1
85°	11.4
87.5°	5.3
90°	0.0

(END OF REPORT)