

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 EC8B20927 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 EC8B20927 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: 1704.4 lumens  
Efficiency: N/A  
Efficacy: 80.0 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

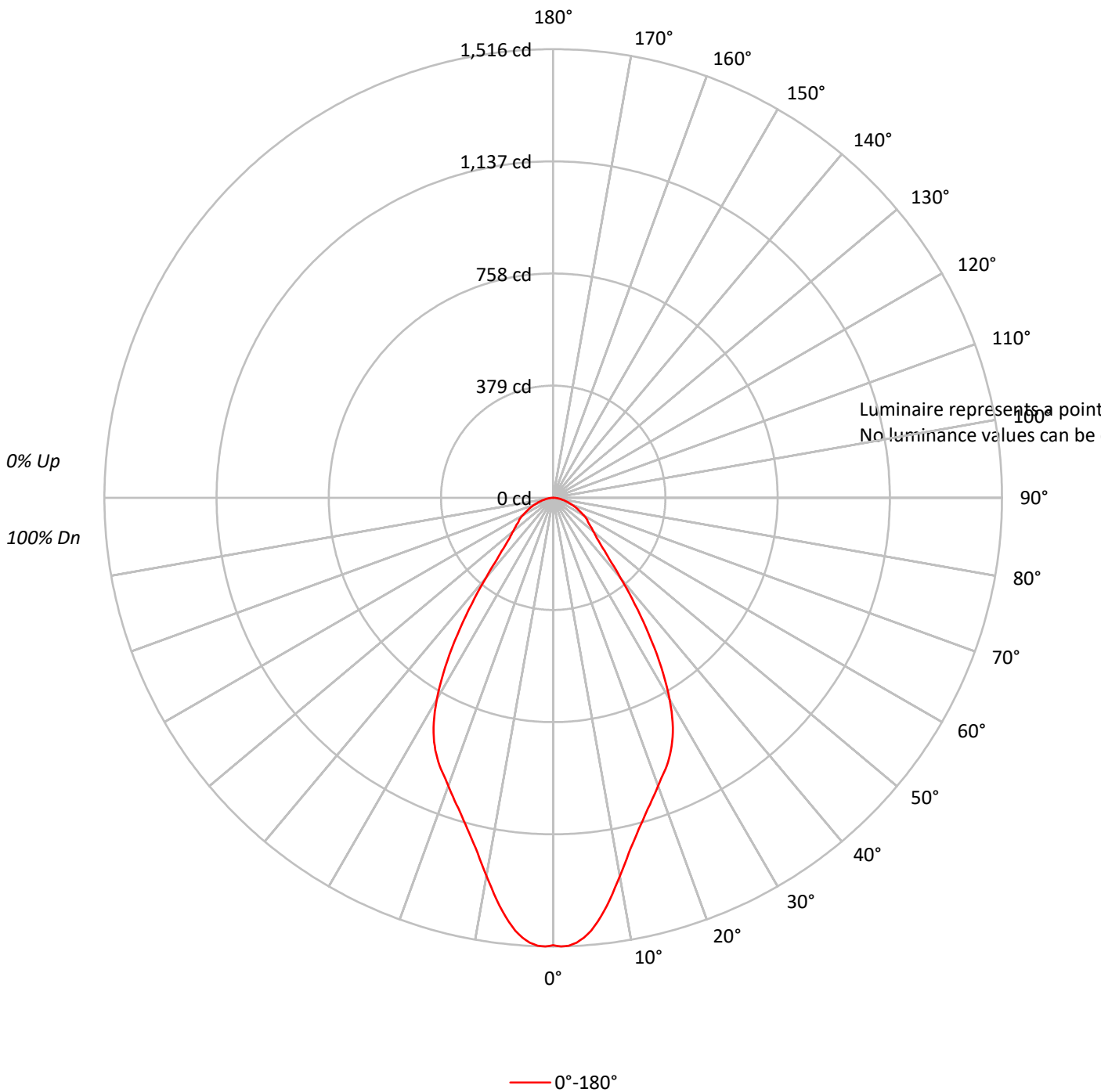
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	134.4	7.9
10°-20°	322.5	18.9
20°-30°	427.3	25.1
30°-40°	350.4	20.6
40°-50°	186.7	11.0
50°-60°	131.4	7.7
60°-70°	90.6	5.3
70°-80°	47.2	2.8
80°-90°	14.0	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°	884.2	51.9
0°-40°	1234.6	72.4
0°-60°	1552.7	91.1
0°-90°	1704.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1704.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1512	
5°	1468	134
15°	1143	322
25°	941	427
35°	564	350
45°	230	187
55°	144	131
65°	91	91
75°	45	47
85°	13	14
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1511.9
1°	1516.2
2°	1514.4
3°	1505.4
4°	1490.1
5°	1468.0
6°	1440.4
7°	1407.3
8°	1371.7
9°	1333.9
10°	1297.4
11°	1262.4
12°	1226.8
13°	1197.2
14°	1169.1
15°	1143.4
16°	1119.4
17°	1097.1
18°	1076.4
19°	1055.8
20°	1036.0
21°	1016.7
22°	999.9
23°	982.8
24°	962.6
25°	941.3
26°	917.2
27°	890.0
28°	859.4
29°	825.4
30°	786.4
31°	745.5
32°	702.6
33°	656.9
34°	610.9
35°	563.6
37.5°	451.7
40°	354.0
42.5°	279.6
45°	230.3
47.5°	197.8
50°	177.5
52.5°	159.9
55°	144.5
57.5°	135.1



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	119.4
62.5°	104.1
65°	90.8
67.5°	78.9
70°	66.0
72.5°	55.1
75°	45.0
77.5°	32.5
80°	26.6
82.5°	19.2
85°	12.8
87.5°	6.0
90°	0.0

(END OF REPORT)