

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: P246746

Luminaire Tested: **LSR8B20D010 EC8B209730 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246746  
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 EC8B209730 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1603.0 lumens  
Efficiency: N/A  
Efficacy: 75.3 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

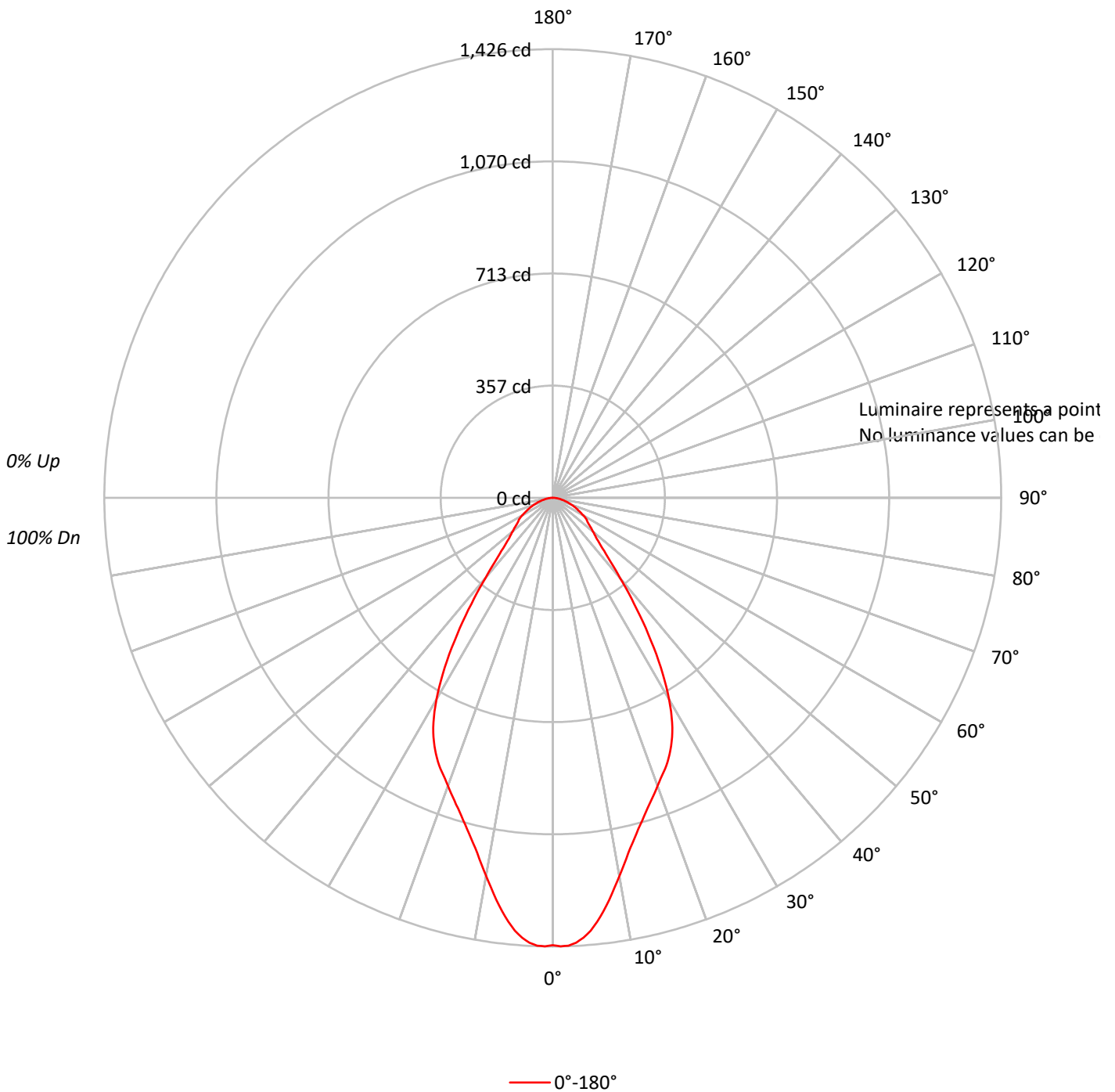
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	126.4	7.9
10°-20°	303.3	18.9
20°-30°	401.9	25.1
30°-40°	329.6	20.6
40°-50°	175.5	11.0
50°-60°	123.6	7.7
60°-70°	85.2	5.3
70°-80°	44.4	2.8
80°-90°	13.1	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°	831.6	51.9
0°-40°	1161.2	72.4
0°-60°	1460.3	91.1
0°-90°	1603.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1603.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1422	
5°	1381	126
15°	1076	303
25°	885	402
35°	530	330
45°	217	176
55°	136	124
65°	85	85
75°	42	44
85°	12	13
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1422.0
1°	1426.0
2°	1424.3
3°	1415.9
4°	1401.4
5°	1380.7
6°	1354.7
7°	1323.6
8°	1290.1
9°	1254.6
10°	1220.2
11°	1187.3
12°	1153.9
13°	1126.0
14°	1099.6
15°	1075.5
16°	1052.8
17°	1031.8
18°	1012.4
19°	993.0
20°	974.4
21°	956.2
22°	940.5
23°	924.3
24°	905.3
25°	885.3
26°	862.6
27°	837.1
28°	808.3
29°	776.3
30°	739.7
31°	701.2
32°	660.8
33°	617.8
34°	574.5
35°	530.1
37.5°	424.8
40°	333.0
42.5°	262.9
45°	216.6
47.5°	186.0
50°	167.0
52.5°	150.3
55°	135.9
57.5°	127.1



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	112.2
62.5°	97.9
65°	85.3
67.5°	74.2
70°	62.1
72.5°	51.9
75°	42.3
77.5°	30.6
80°	25.0
82.5°	18.1
85°	12.1
87.5°	5.6
90°	0.0

(END OF REPORT)