

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: P250732

Luminaire Tested: **LSR8B120D010 EC8B120840 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250732  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13935)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B120840 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12223.0 lumens  
Efficiency: N/A  
Efficacy: 103.3 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

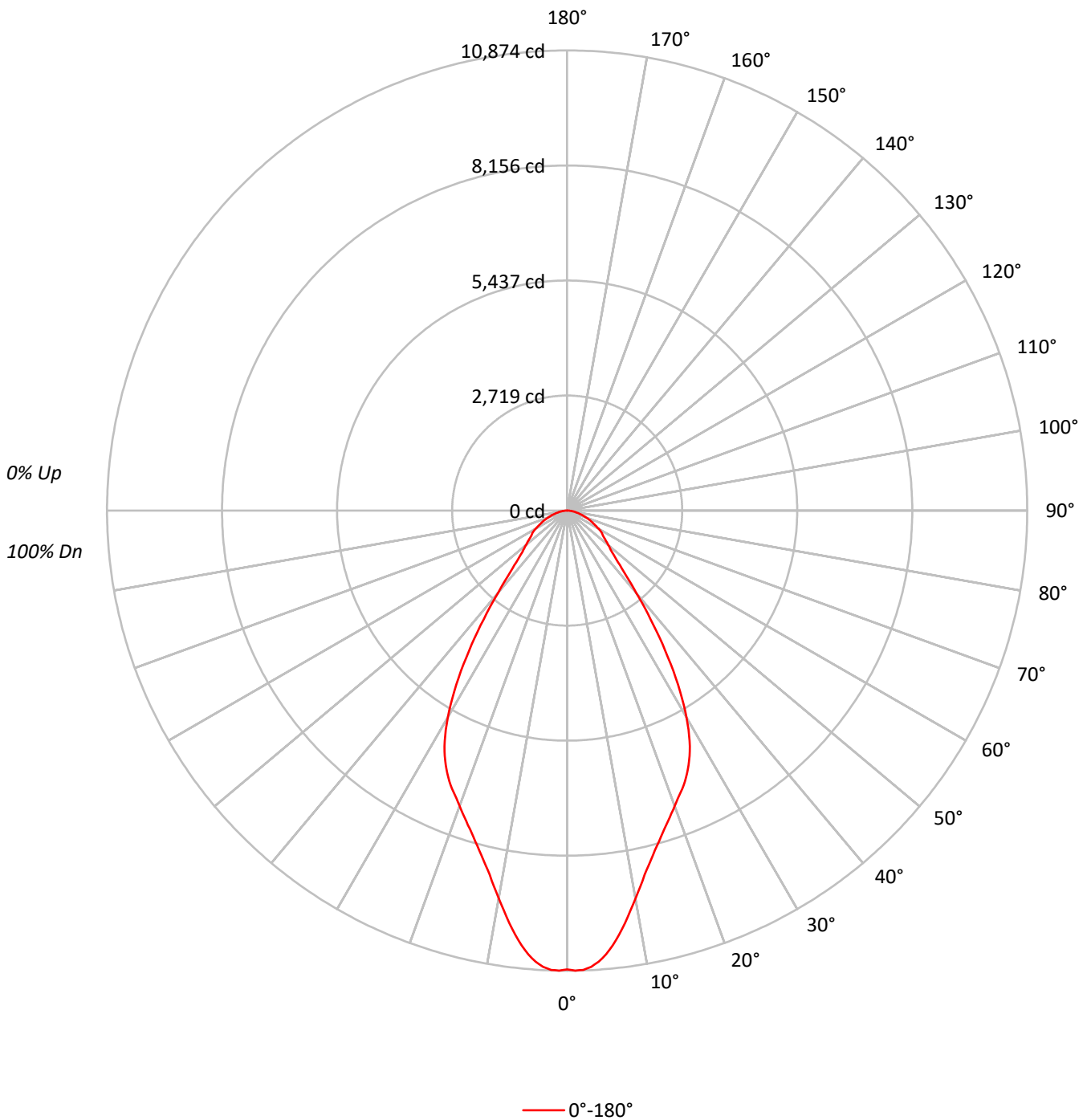
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	334340
5°	325872
10°	291330
15°	261803
20°	243811
25°	229690
30°	200836
35°	152158
40°	102209
45°	72020
50°	61074
55°	55708
60°	52779
65°	47478
70°	42718
75°	38340
80°	33918
85°	32550



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	963.6	7.9
10°-20°	2312.7	18.9
20°-30°	3064.8	25.1
30°-40°	2513.2	20.6
40°-50°	1338.5	11.0
50°-60°	942.1	7.7
60°-70°	649.6	5.3
70°-80°	338.3	2.8
80°-90°	100.1	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°	6341.1	51.9
0°-40°	8854.3	72.4
0°-60°	11135.0	91.1
0°-90°	12223.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12223.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10842	
5°	10528	964
15°	8201	2313
25°	6751	3065
35°	4042	2513
45°	1652	1339
55°	1036	942
65°	651	650
75°	322	338
85°	92	100
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	10842.4
1°	10874.3
2°	10860.1
3°	10796.4
4°	10686.8
5°	10527.6
6°	10329.7
7°	10092.7
8°	9838.1
9°	9565.8
10°	9304.1
11°	9053.0
12°	8798.4
13°	8586.2
14°	8384.7
15°	8200.8
16°	8027.5
17°	7868.4
18°	7719.8
19°	7571.3
20°	7429.8
21°	7291.9
22°	7171.7
23°	7047.9
24°	6903.0
25°	6750.8
26°	6577.6
27°	6383.1
28°	6163.8
29°	5919.8
30°	5640.4
31°	5346.9
32°	5039.3
33°	4710.4
34°	4381.5
35°	4042.0
37.5°	3239.3
40°	2539.1
42.5°	2005.1
45°	1651.5
47.5°	1418.1
50°	1273.1
52.5°	1145.8
55°	1036.2
57.5°	968.9



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	855.8
62.5°	746.1
65°	650.7
67.5°	565.8
70°	473.8
72.5°	396.0
75°	321.8
77.5°	233.4
80°	191.0
82.5°	137.9
85°	92.0
87.5°	42.4
90°	0.0

(END OF REPORT)