

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: P246748

Luminaire Tested: **LSR8B40D010 EC8B40930 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246748  
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: LSR8B40D010 EC8B40930 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: 3641.0 lumens  
Efficiency: N/A  
Efficacy: 89.0 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

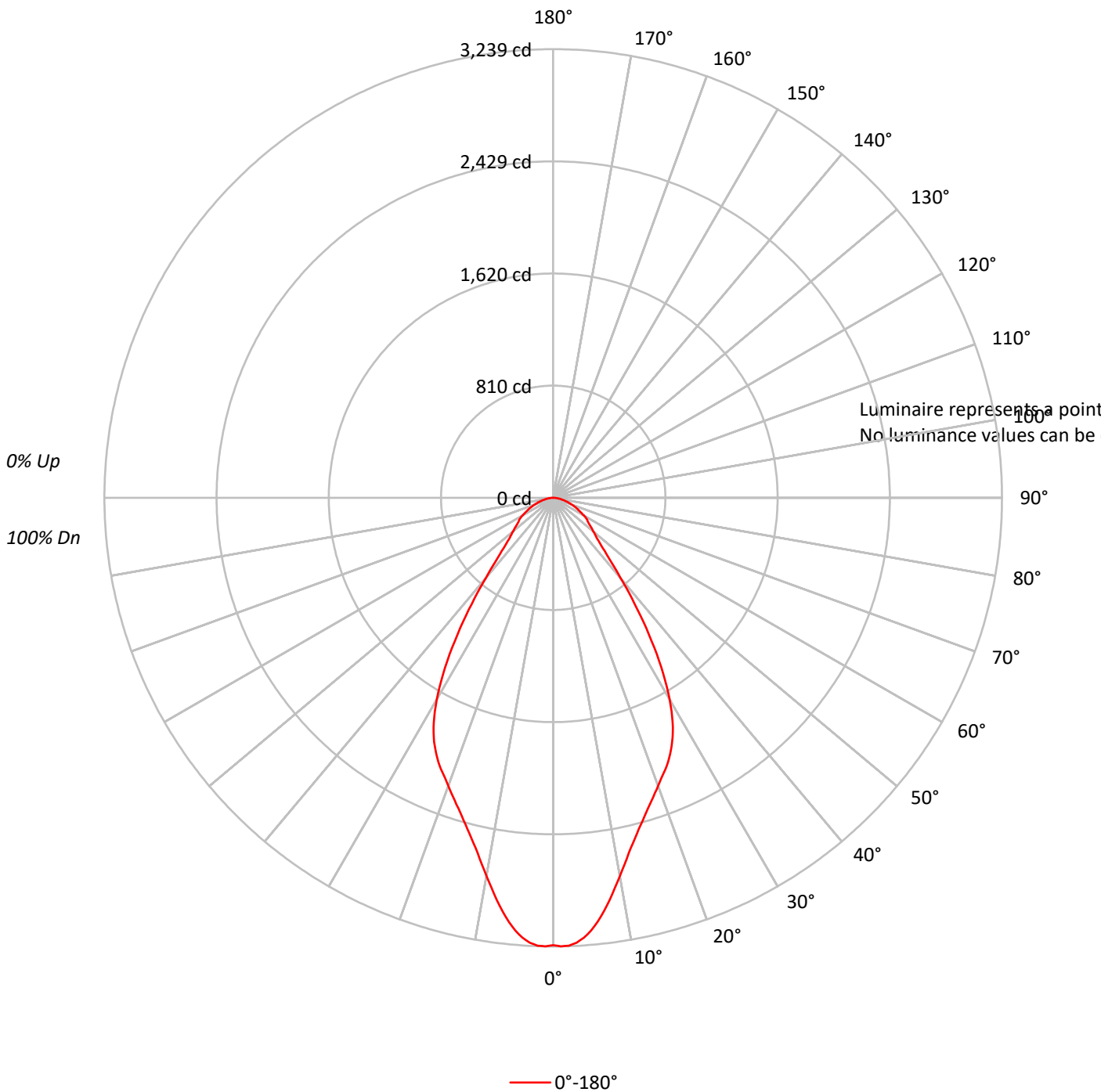
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	287.0	7.9
10°-20°	688.9	18.9
20°-30°	912.9	25.1
30°-40°	748.6	20.6
40°-50°	398.8	11.0
50°-60°	280.7	7.7
60°-70°	193.5	5.3
70°-80°	100.8	2.8
80°-90°	29.8	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°	1888.8	51.9
0°-40°	2637.4	72.4
0°-60°	3316.9	91.1
0°-90°	3641.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3641.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3230	
5°	3136	287
15°	2443	689
25°	2011	913
35°	1204	749
45°	492	399
55°	309	281
65°	194	194
75°	96	101
85°	28	30
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3229.9
1°	3239.0
2°	3235.1
3°	3215.9
4°	3183.2
5°	3136.0
6°	3077.1
7°	3006.3
8°	2930.4
9°	2849.6
10°	2771.4
11°	2696.8
12°	2620.9
13°	2557.6
14°	2497.6
15°	2442.8
16°	2391.2
17°	2343.6
18°	2299.5
19°	2255.3
20°	2213.1
21°	2171.9
22°	2136.2
23°	2099.4
24°	2056.3
25°	2010.8
26°	1959.4
27°	1901.3
28°	1835.9
29°	1763.3
30°	1680.0
31°	1592.7
32°	1501.0
33°	1403.2
34°	1305.0
35°	1204.1
37.5°	964.8
40°	756.2
42.5°	597.3
45°	492.0
47.5°	422.6
50°	379.3
52.5°	341.5
55°	308.6
57.5°	288.7



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	254.9
62.5°	222.3
65°	193.8
67.5°	168.6
70°	141.1
72.5°	117.8
75°	96.1
77.5°	69.5
80°	56.7
82.5°	41.0
85°	27.5
87.5°	12.8
90°	0.0

(END OF REPORT)