

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 EC8B409730 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 EC8B409730 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: 3248.0 lumens  
Efficiency: N/A  
Efficacy: 79.4 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

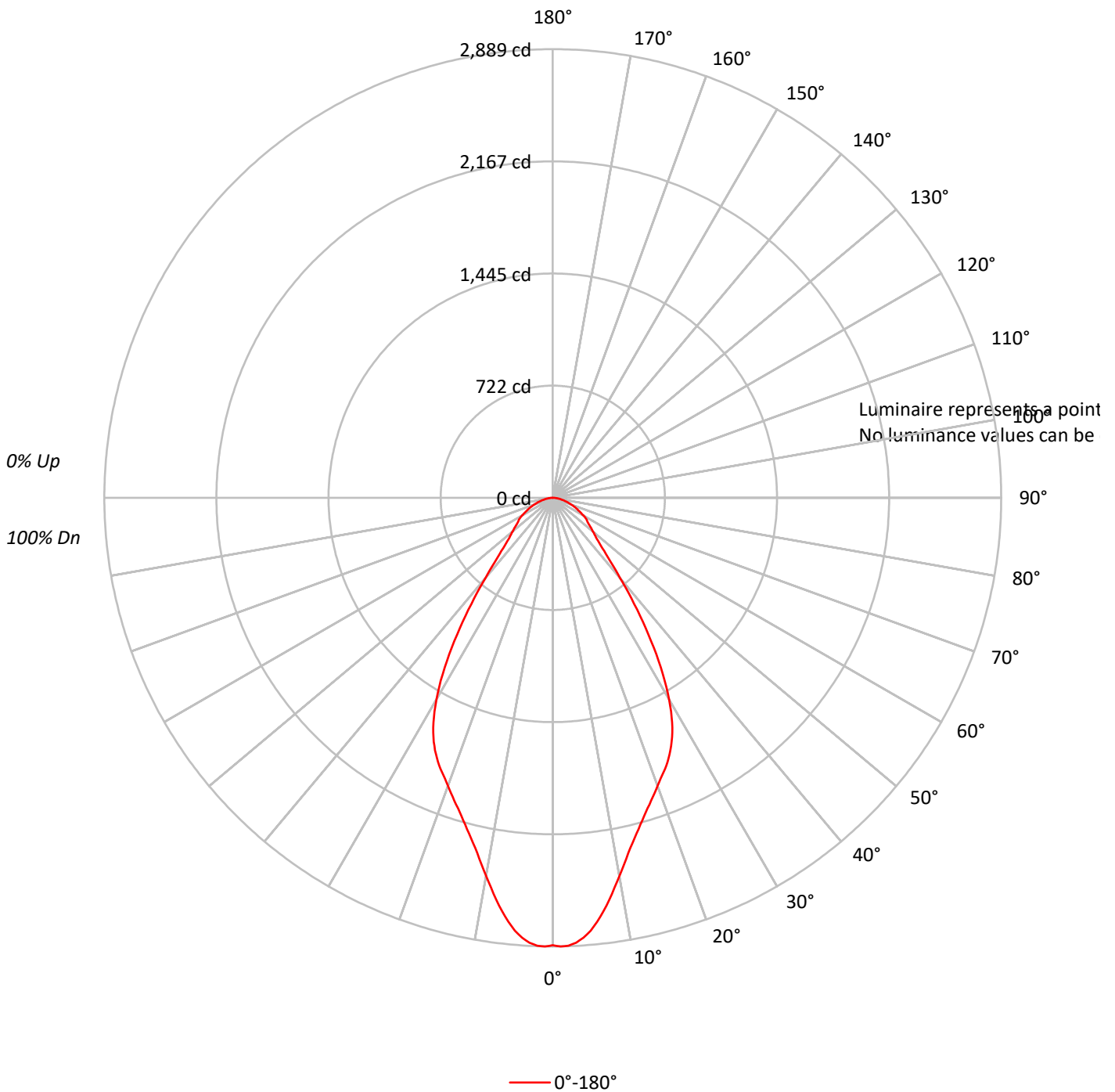
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





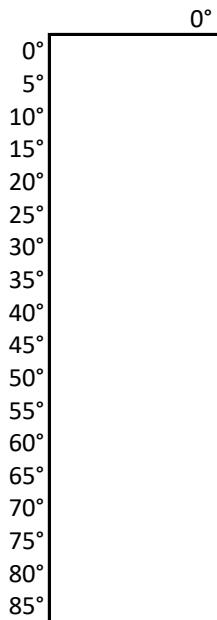
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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

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°	256.1	7.9
10°-20°	614.5	18.9
20°-30°	814.4	25.1
30°-40°	667.8	20.6
40°-50°	355.7	11.0
50°-60°	250.4	7.7
60°-70°	172.6	5.3
70°-80°	89.9	2.8
80°-90°	26.6	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°	1685.0	51.9
0°-40°	2352.7	72.4
0°-60°	2958.9	91.1
0°-90°	3248.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3248.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2881	
5°	2798	256
15°	2179	615
25°	1794	814
35°	1074	668
45°	439	356
55°	275	250
65°	173	173
75°	86	90
85°	24	27
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2881.3
1°	2889.4
2°	2885.9
3°	2868.8
4°	2839.6
5°	2797.5
6°	2745.0
7°	2681.8
8°	2614.1
9°	2542.0
10°	2472.3
11°	2405.7
12°	2338.0
13°	2281.5
14°	2228.0
15°	2179.1
16°	2133.1
17°	2090.6
18°	2051.3
19°	2011.9
20°	1974.2
21°	1937.5
22°	1905.6
23°	1872.8
24°	1834.3
25°	1793.8
26°	1747.9
27°	1696.1
28°	1637.7
29°	1573.0
30°	1498.7
31°	1420.8
32°	1339.0
33°	1251.7
34°	1164.1
35°	1074.1
37.5°	860.7
40°	674.6
42.5°	532.8
45°	438.9
47.5°	377.0
50°	338.4
52.5°	304.6
55°	275.3
57.5°	257.5



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	227.4
62.5°	198.3
65°	172.9
67.5°	150.4
70°	125.9
72.5°	105.1
75°	85.7
77.5°	62.0
80°	50.6
82.5°	36.6
85°	24.5
87.5°	11.4
90°	0.0

(END OF REPORT)