

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: P246688

Luminaire Tested: **LSR8B40D010 EC8B40830 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246688  
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 EC8B40830 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4240.0 lumens  
Efficiency: N/A  
Efficacy: 103.7 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

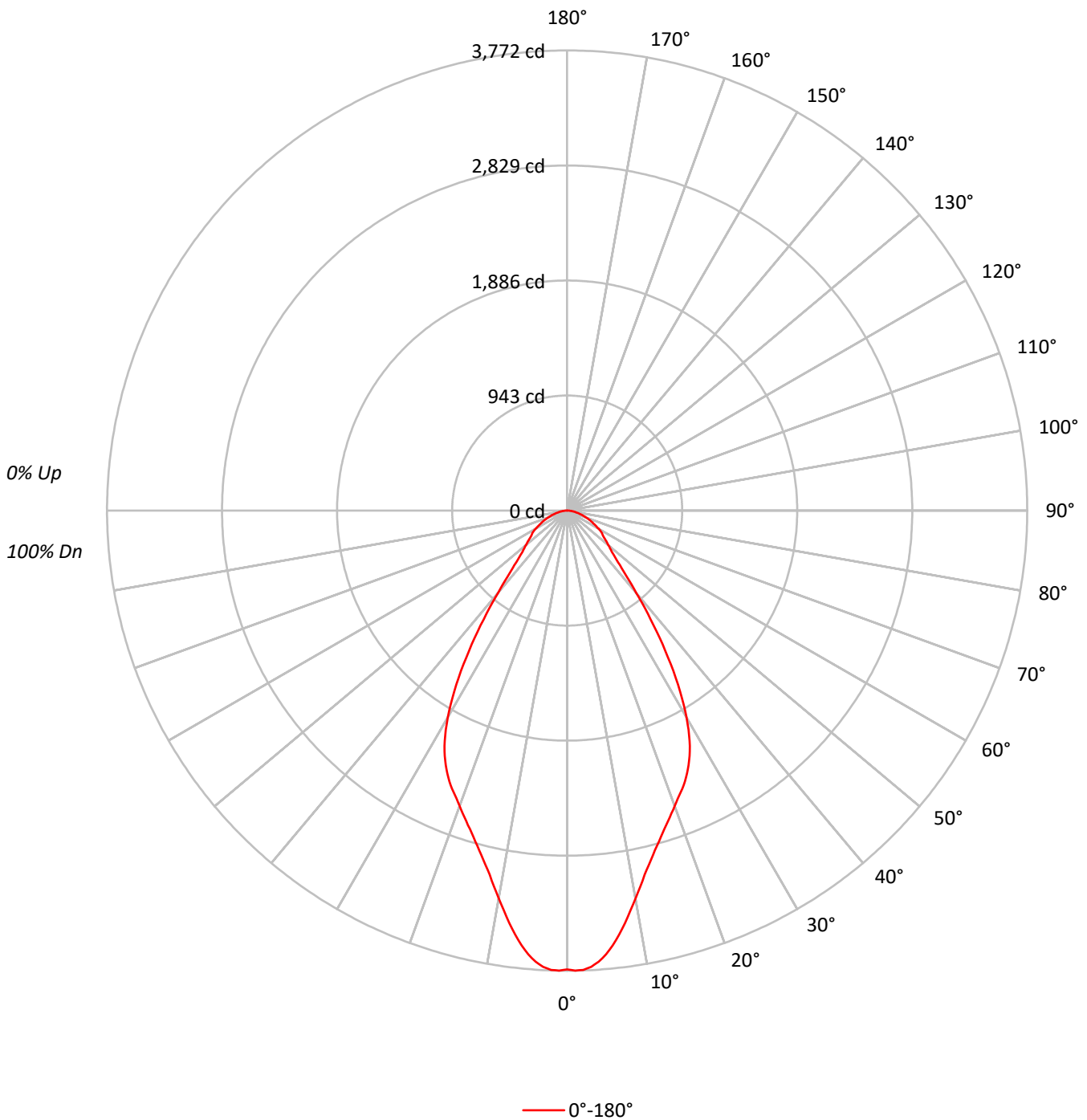
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	115985
5°	113041
10°	101056
15°	90814
20°	84572
25°	79674
30°	69661
35°	52785
40°	35452
45°	24988
50°	21190
55°	19322
60°	18311
65°	16468
70°	14822
75°	13332
80°	11738
85°	11322



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.3	7.9
10°-20°	802.2	18.9
20°-30°	1063.1	25.1
30°-40°	871.7	20.6
40°-50°	464.4	11.0
50°-60°	326.8	7.7
60°-70°	225.4	5.3
70°-80°	117.4	2.8
80°-90°	34.7	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°	2199.6	51.9
0°-40°	3071.3	72.4
0°-60°	3862.5	91.1
0°-90°	4240.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4240.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3761	
5°	3652	334
15°	2845	802
25°	2342	1063
35°	1402	872
45°	573	464
55°	359	327
65°	226	225
75°	112	117
85°	32	35
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3761.3
1°	3771.9
2°	3767.3
3°	3745.0
4°	3706.8
5°	3651.9
6°	3583.3
7°	3500.9
8°	3412.5
9°	3318.4
10°	3227.4
11°	3140.4
12°	3052.0
13°	2978.4
14°	2908.5
15°	2844.7
16°	2784.6
17°	2729.2
18°	2677.8
19°	2626.4
20°	2577.2
21°	2529.3
22°	2487.6
23°	2444.8
24°	2394.6
25°	2341.7
26°	2281.7
27°	2214.1
28°	2137.9
29°	2053.4
30°	1956.4
31°	1854.7
32°	1747.9
33°	1634.0
34°	1519.6
35°	1402.2
37.5°	1123.5
40°	880.7
42.5°	695.5
45°	573.0
47.5°	492.1
50°	441.7
52.5°	397.6
55°	359.4
57.5°	336.1



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	296.9
62.5°	258.9
65°	225.7
67.5°	196.3
70°	164.4
72.5°	137.2
75°	111.9
77.5°	80.9
80°	66.1
82.5°	47.8
85°	32.0
87.5°	14.8
90°	0.0

(END OF REPORT)