

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: P246736

Luminaire Tested: **LSR8B40D010 EC8B40950 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246736  
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 EC8B40950 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4066.0 lumens  
Efficiency: N/A  
Efficacy: 99.4 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

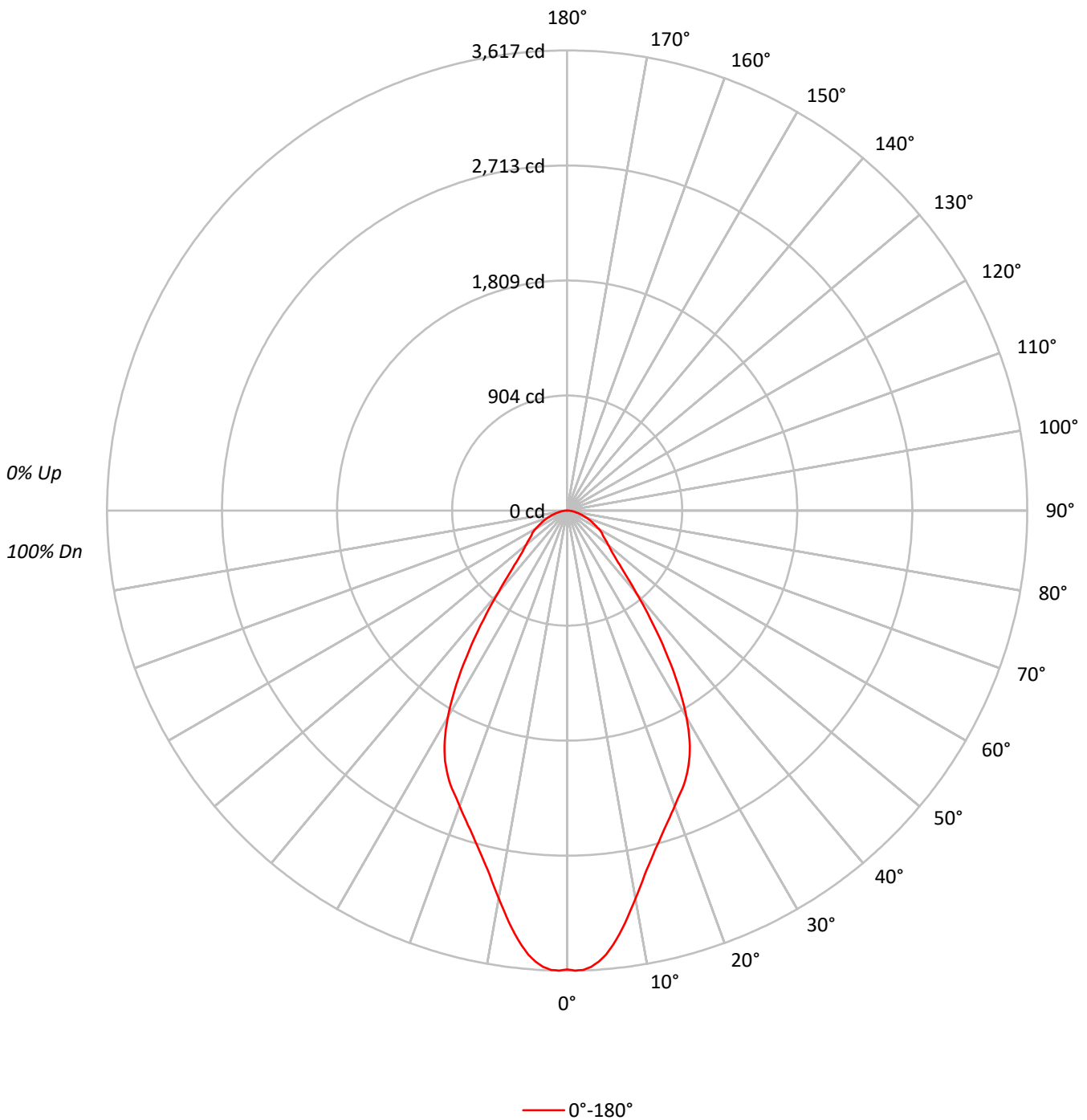
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	111224
5°	108404
10°	96911
15°	87089
20°	81103
25°	76405
30°	66802
35°	50616
40°	33994
45°	23963
50°	20321
55°	18532
60°	17558
65°	15797
70°	14209
75°	12784
80°	11259
85°	10826



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	320.5	7.9
10°-20°	769.3	18.9
20°-30°	1019.5	25.1
30°-40°	836.0	20.6
40°-50°	445.3	11.0
50°-60°	313.4	7.7
60°-70°	216.1	5.3
70°-80°	112.5	2.8
80°-90°	33.3	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°	2109.3	51.9
0°-40°	2945.3	72.4
0°-60°	3704.0	91.1
0°-90°	4066.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4066.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3607	
5°	3502	321
15°	2728	769
25°	2246	1019
35°	1345	836
45°	550	445
55°	345	313
65°	216	216
75°	107	113
85°	31	33
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3606.9
1°	3617.1
2°	3612.7
3°	3591.3
4°	3554.7
5°	3502.1
6°	3436.3
7°	3357.2
8°	3272.4
9°	3182.2
10°	3095.0
11°	3011.6
12°	2926.8
13°	2856.1
14°	2789.1
15°	2728.0
16°	2670.3
17°	2617.2
18°	2567.9
19°	2518.6
20°	2471.5
21°	2425.5
22°	2385.5
23°	2344.5
24°	2296.3
25°	2245.6
26°	2188.1
27°	2123.3
28°	2050.2
29°	1969.2
30°	1876.1
31°	1778.6
32°	1676.2
33°	1567.0
34°	1457.3
35°	1344.6
37.5°	1077.4
40°	844.5
42.5°	667.0
45°	549.5
47.5°	471.9
50°	423.6
52.5°	381.3
55°	344.7
57.5°	322.3



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	284.7
62.5°	248.2
65°	216.5
67.5°	188.3
70°	157.6
72.5°	131.6
75°	107.3
77.5°	77.6
80°	63.4
82.5°	45.9
85°	30.6
87.5°	14.2
90°	0.0

(END OF REPORT)