

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: P246724

Luminaire Tested: **LSR8B40D010 EC8B40935 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246724  
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 EC8B40935 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3760.0 lumens  
Efficiency: N/A  
Efficacy: 91.9 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

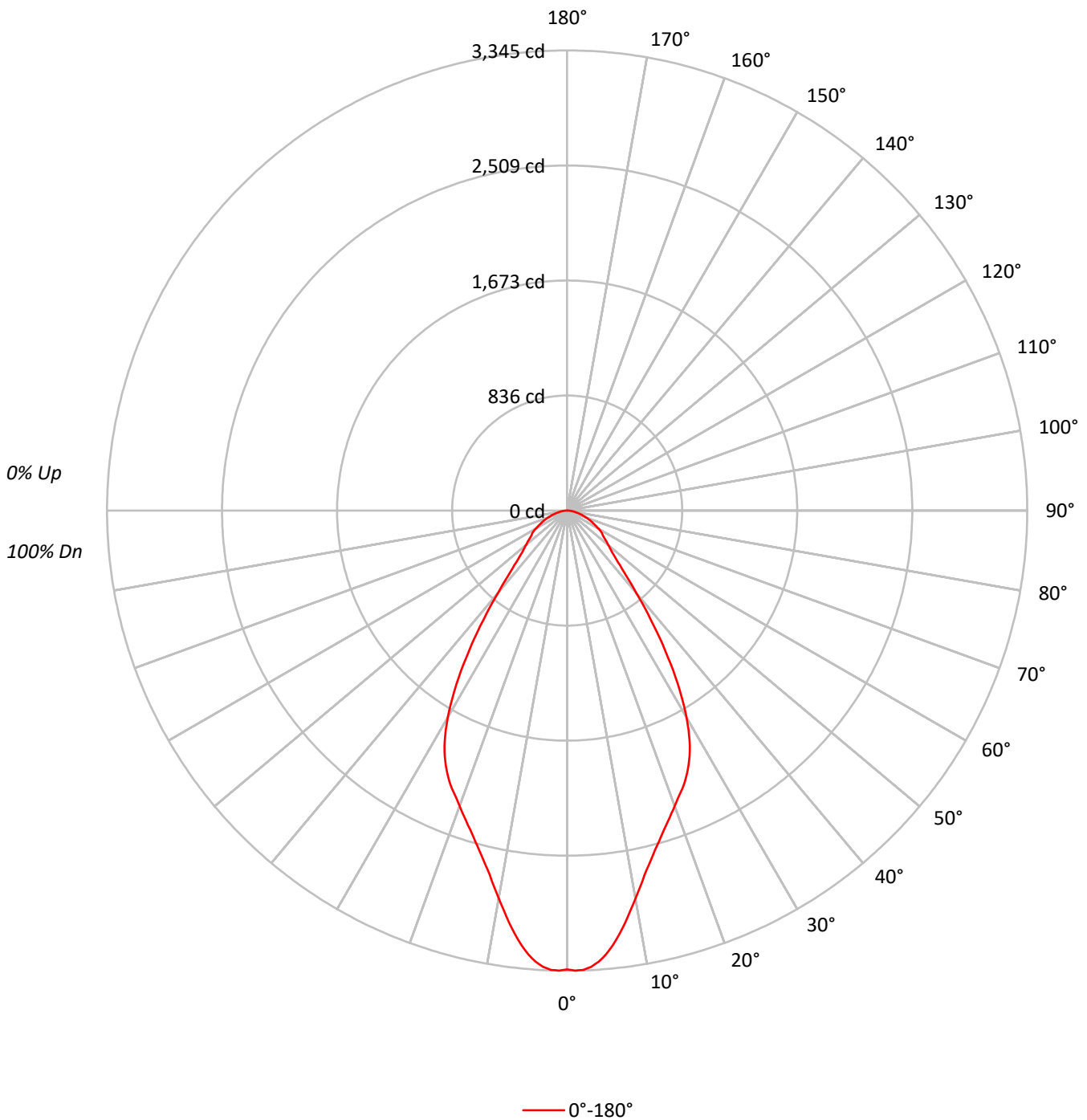
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	102855
5°	100245
10°	89618
15°	80535
20°	74999
25°	70654
30°	61774
35°	46807
40°	31438
45°	22158
50°	18791
55°	17134
60°	16238
65°	14608
70°	13145
75°	11819
80°	10406
85°	10013



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.4	7.9
10°-20°	711.4	18.9
20°-30°	942.7	25.1
30°-40°	773.0	20.6
40°-50°	411.8	11.0
50°-60°	289.8	7.7
60°-70°	199.9	5.3
70°-80°	104.1	2.8
80°-90°	30.8	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°	1950.6	51.9
0°-40°	2723.6	72.4
0°-60°	3425.3	91.1
0°-90°	3760.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3760.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3336	
5°	3238	296
15°	2523	711
25°	2077	943
35°	1243	773
45°	508	412
55°	319	290
65°	200	200
75°	99	104
85°	28	31
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3335.5
1°	3344.9
2°	3340.9
3°	3321.1
4°	3287.2
5°	3238.5
6°	3177.7
7°	3104.6
8°	3026.2
9°	2942.7
10°	2862.1
11°	2784.9
12°	2706.5
13°	2641.2
14°	2579.2
15°	2522.7
16°	2469.3
17°	2420.2
18°	2374.6
19°	2329.1
20°	2285.5
21°	2242.9
22°	2205.9
23°	2168.0
24°	2123.5
25°	2076.6
26°	2023.4
27°	1963.5
28°	1895.9
29°	1821.0
30°	1734.9
31°	1644.7
32°	1550.0
33°	1449.0
34°	1347.6
35°	1243.4
37.5°	996.4
40°	781.0
42.5°	616.8
45°	508.1
47.5°	436.4
50°	391.7
52.5°	352.6
55°	318.7
57.5°	298.0



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	263.3
62.5°	229.5
65°	200.2
67.5°	174.1
70°	145.8
72.5°	121.7
75°	99.2
77.5°	71.8
80°	58.6
82.5°	42.4
85°	28.3
87.5°	13.2
90°	0.0

(END OF REPORT)