

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: P246694

Luminaire Tested: **LD8B40D010 ER8B40835 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246694  
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: LD8B40D010 ER8B40835 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3500 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4410.0 lumens  
Efficiency: N/A  
Efficacy: 107.8 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

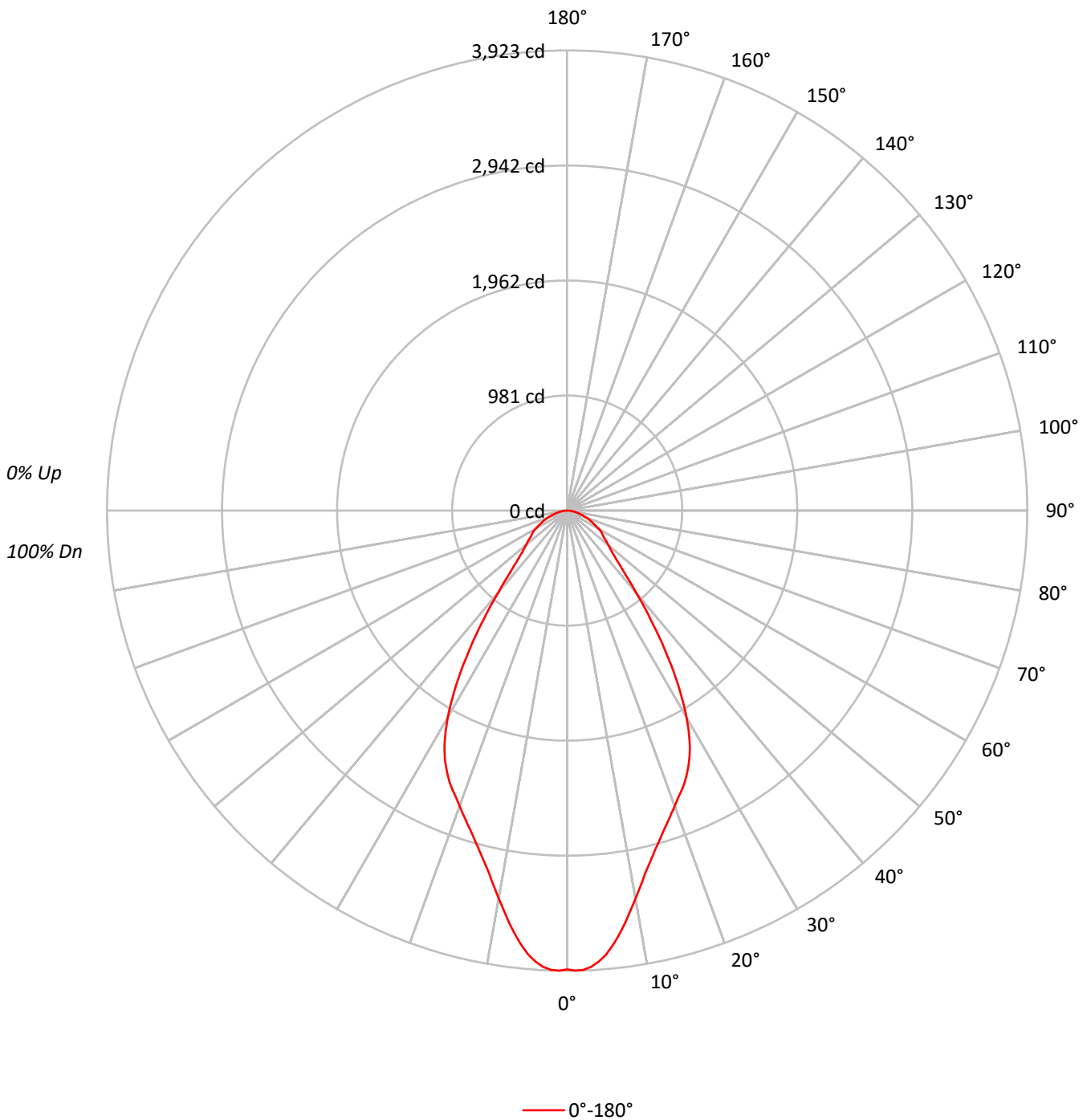
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	120635
5°	117576
10°	105111
15°	94454
20°	87961
25°	82869
30°	72453
35°	54900
40°	36873
45°	25991
50°	22039
55°	20096
60°	19045
65°	17132
70°	15417
75°	13856
80°	12200
85°	11746



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	347.7	7.9
10°-20°	834.4	18.9
20°-30°	1105.7	25.1
30°-40°	906.7	20.6
40°-50°	483.0	11.0
50°-60°	339.9	7.7
60°-70°	234.4	5.3
70°-80°	122.0	2.8
80°-90°	36.1	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°	2287.8	51.9
0°-40°	3194.5	72.4
0°-60°	4017.4	91.1
0°-90°	4410.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4410.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3912	
5°	3798	348
15°	2959	834
25°	2436	1106
35°	1458	907
45°	596	483
55°	374	340
65°	235	234
75°	116	122
85°	33	36
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3912.1
1°	3923.1
2°	3918.4
3°	3895.2
4°	3855.5
5°	3798.4
6°	3727.0
7°	3641.3
8°	3549.3
9°	3451.4
10°	3356.9
11°	3266.4
12°	3174.4
13°	3097.8
14°	3025.1
15°	2958.7
16°	2896.2
17°	2838.6
18°	2785.2
19°	2731.7
20°	2680.5
21°	2630.7
22°	2587.3
23°	2542.8
24°	2490.6
25°	2435.6
26°	2373.2
27°	2302.9
28°	2223.6
29°	2135.8
30°	2034.8
31°	1929.1
32°	1818.0
33°	1699.5
34°	1580.5
35°	1458.4
37.5°	1168.6
40°	916.0
42.5°	723.4
45°	596.0
47.5°	511.8
50°	459.4
52.5°	413.5
55°	373.8
57.5°	349.6



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	308.8
62.5°	269.2
65°	234.8
67.5°	204.2
70°	171.0
72.5°	142.7
75°	116.3
77.5°	84.2
80°	68.7
82.5°	49.7
85°	33.2
87.5°	15.4
90°	0.0

(END OF REPORT)