

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: P244402

Luminaire Tested: **LD8B40D010 ER8B40850 8LBM0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244402  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27951)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B40D010 ER8B40850 8LBM0H  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4392.9 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.93  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

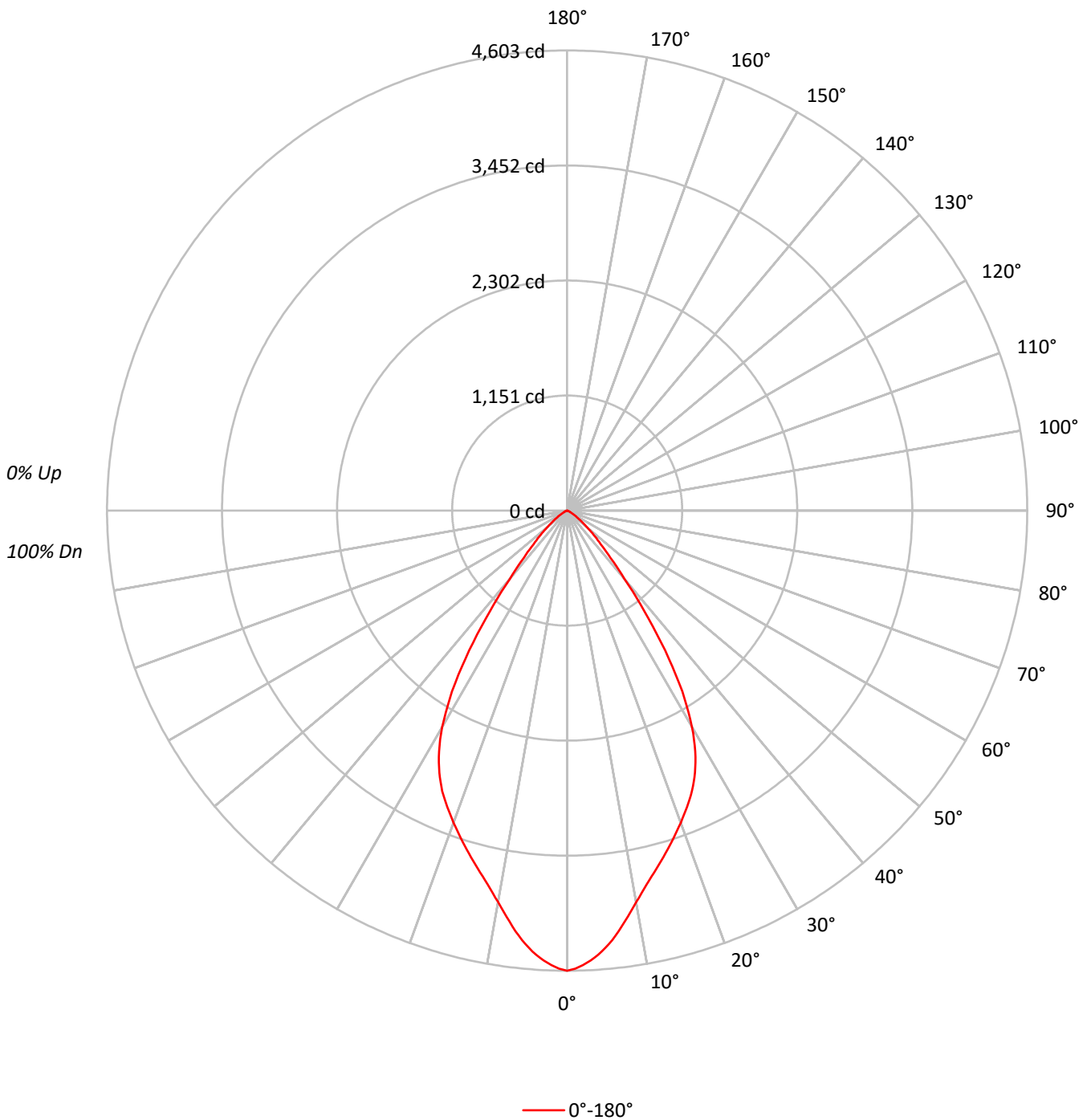
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	108	105	111	108	106	104	104	102	100		100	99	97		97	96	95	93
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83		88	84	82		86	83	80	79
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80	77	74	73
5	90	82	75	71	89	81	75	70	79	74	70		77	73	69		75	72	69	67
6	85	76	70	65	84	75	69	65	74	68	64		72	68	64		71	67	64	62
7	81	71	65	60	80	70	64	60	69	64	60		68	63	59		67	62	59	58
8	77	67	60	56	75	66	60	56	65	59	56		64	59	55		63	58	55	54
9	73	63	56	52	72	62	56	52	61	56	52		60	55	52		59	55	51	50
10	69	59	53	49	68	58	53	49	58	52	48		57	52	48		56	51	48	47

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	141949
5°	135929
10°	124553
15°	115897
20°	109006
25°	101987
30°	88942
35°	64281
40°	36039
45°	20732
50°	12689
55°	7220
60°	3756
65°	1912
70°	1037
75°	620
80°	373
85°	354



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	405.4	9.2
10°-20°	1020.6	23.2
20°-30°	1361.7	31.0
30°-40°	1049.6	23.9
40°-50°	391.4	8.9
50°-60°	128.0	2.9
60°-70°	29.5	0.7
70°-80°	5.9	0.1
80°-90°	0.8	0.0
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°	2787.7	63.5
0°-40°	3837.4	87.4
0°-60°	4356.7	99.2
0°-90°	4392.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4392.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4603	
5°	4391	405
15°	3630	1021
25°	2998	1362
35°	1708	1050
45°	475	391
55°	134	128
65°	26	30
75°	5	6
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4603.3
1°	4583.3
2°	4549.8
3°	4506.7
4°	4454.2
5°	4391.3
6°	4319.9
7°	4238.0
8°	4150.9
9°	4060.7
10°	3977.8
11°	3898.0
12°	3823.5
13°	3755.3
14°	3692.3
15°	3630.4
16°	3567.4
17°	3506.5
18°	3443.5
19°	3381.6
20°	3321.8
21°	3259.9
22°	3200.0
23°	3137.1
24°	3071.0
25°	2997.5
26°	2916.7
27°	2827.5
28°	2728.8
29°	2618.6
30°	2497.9
32.5°	2144.2
35°	1707.6
37.5°	1264.7
40°	895.3
42.5°	641.3
45°	475.4
47.5°	357.9
50°	264.5
52.5°	188.9
55°	134.3
57.5°	92.4
60°	60.9
62.5°	39.9
65°	26.2



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	17.8
70°	11.5
72.5°	7.3
75°	5.2
77.5°	3.1
80°	2.1
82.5°	1.0
85°	1.0
87.5°	0.0
90°	0.0

(END OF REPORT)