

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: P244318

Luminaire Tested: **LD8B40D010 ER8B40835 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244318  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27944)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B40D010 ER8B40835 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3985.0 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.79  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

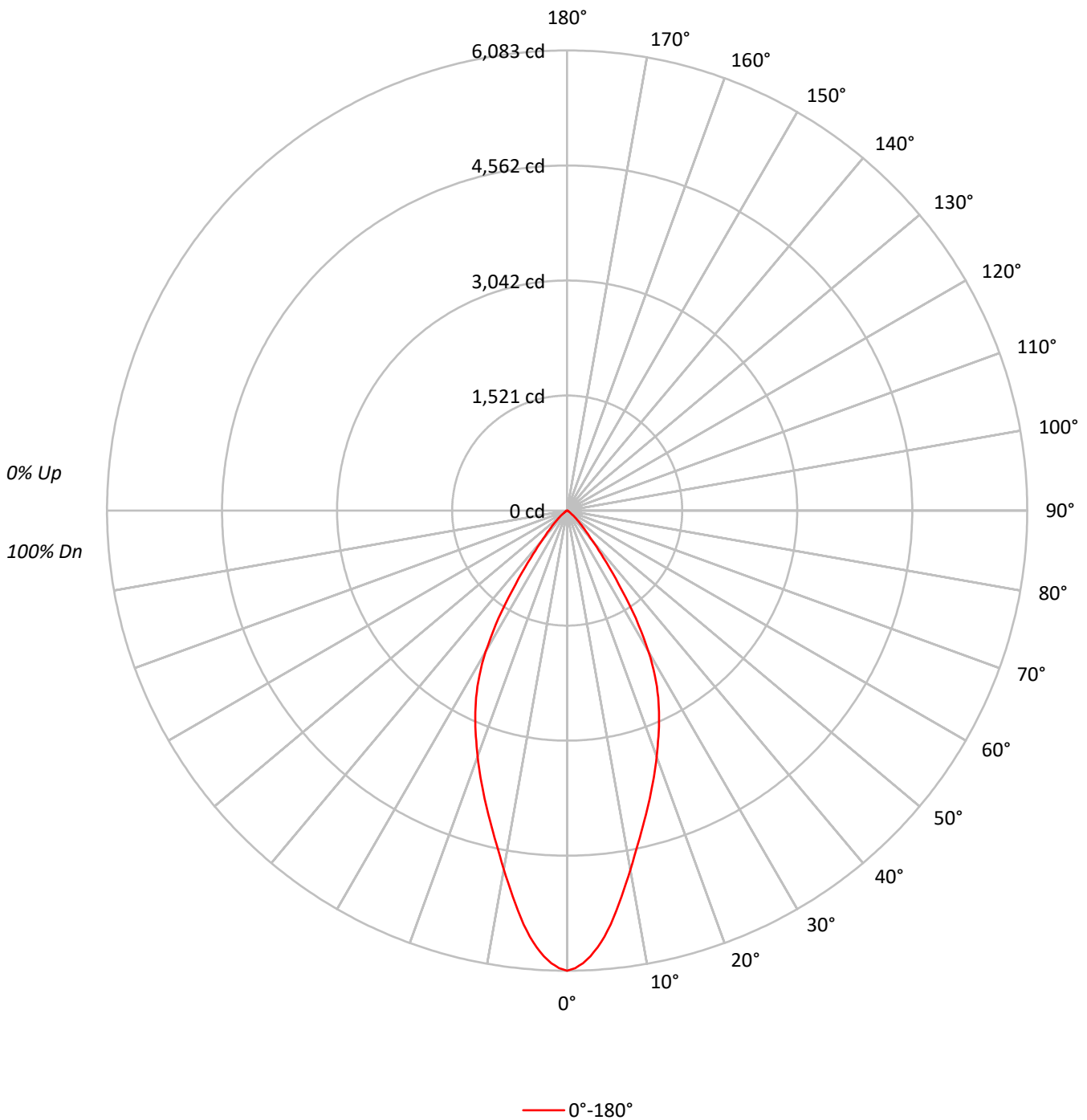
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	111	109	106	111	109	107	105	105	103	101		101	100	98		98	97	96	94
2	108	104	100	96	106	102	98	95	99	96	93		96	93	91		93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86		90	87	85		88	86	83	82
4	98	91	85	81	96	90	85	81	87	83	80		85	82	79		84	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74		81	77	74		79	76	73	72
6	89	80	74	70	87	79	74	70	78	73	69		76	72	69		75	71	69	67
7	85	76	70	66	83	75	69	65	74	69	65		72	68	65		71	67	64	63
8	81	71	66	62	79	71	65	61	70	65	61		69	64	61		68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58		65	61	58		64	60	57	56
10	74	64	59	55	73	64	58	55	63	58	55		62	58	54		61	57	54	53

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

	0°
0°	187580
5°	174968
10°	150821
15°	130525
20°	113544
25°	97581
30°	76672
35°	44736
40°	20642
45°	10680
50°	5359
55°	2602
60°	1326
65°	788
70°	361
75°	322
80°	231
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	511.5	12.8
10°-20°	1143.2	28.7
20°-30°	1299.8	32.6
30°-40°	763.3	19.2
40°-50°	204.8	5.1
50°-60°	48.6	1.2
60°-70°	11.1	0.3
70°-80°	2.5	0.1
80°-90°	0.2	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°	2954.5	74.1
0°-40°	3717.8	93.3
0°-60°	3971.3	99.7
0°-90°	3985.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3985.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6083	
5°	5652	512
15°	4089	1143
25°	2868	1300
35°	1188	763
45°	245	205
55°	48	49
65°	11	11
75°	3	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6083.1
1°	6049.5
2°	5987.6
3°	5900.1
4°	5787.1
5°	5652.5
6°	5500.4
7°	5328.1
8°	5155.9
9°	4982.3
10°	4816.7
11°	4655.2
12°	4503.1
13°	4361.8
14°	4220.5
15°	4088.6
16°	3959.4
17°	3831.6
18°	3707.8
19°	3582.6
20°	3460.1
21°	3337.7
22°	3220.6
23°	3104.8
24°	2986.4
25°	2868.0
26°	2745.5
27°	2612.3
28°	2472.3
29°	2318.9
30°	2153.3
32.5°	1689.0
35°	1188.4
37.5°	783.3
40°	512.8
42.5°	354.0
45°	244.9
47.5°	168.2
50°	111.7
52.5°	72.7
55°	48.4
57.5°	32.3
60°	21.5
62.5°	14.8
65°	10.8



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	6.7
70°	4.0
72.5°	2.7
75°	2.7
77.5°	1.3
80°	1.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)