

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: P245554

Luminaire Tested: **LD8B40D010 ER8B40850 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245554  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-46)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B40D010 ER8B40850 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3991.0 lumens  
Efficiency: N/A  
Efficacy: 97.6 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

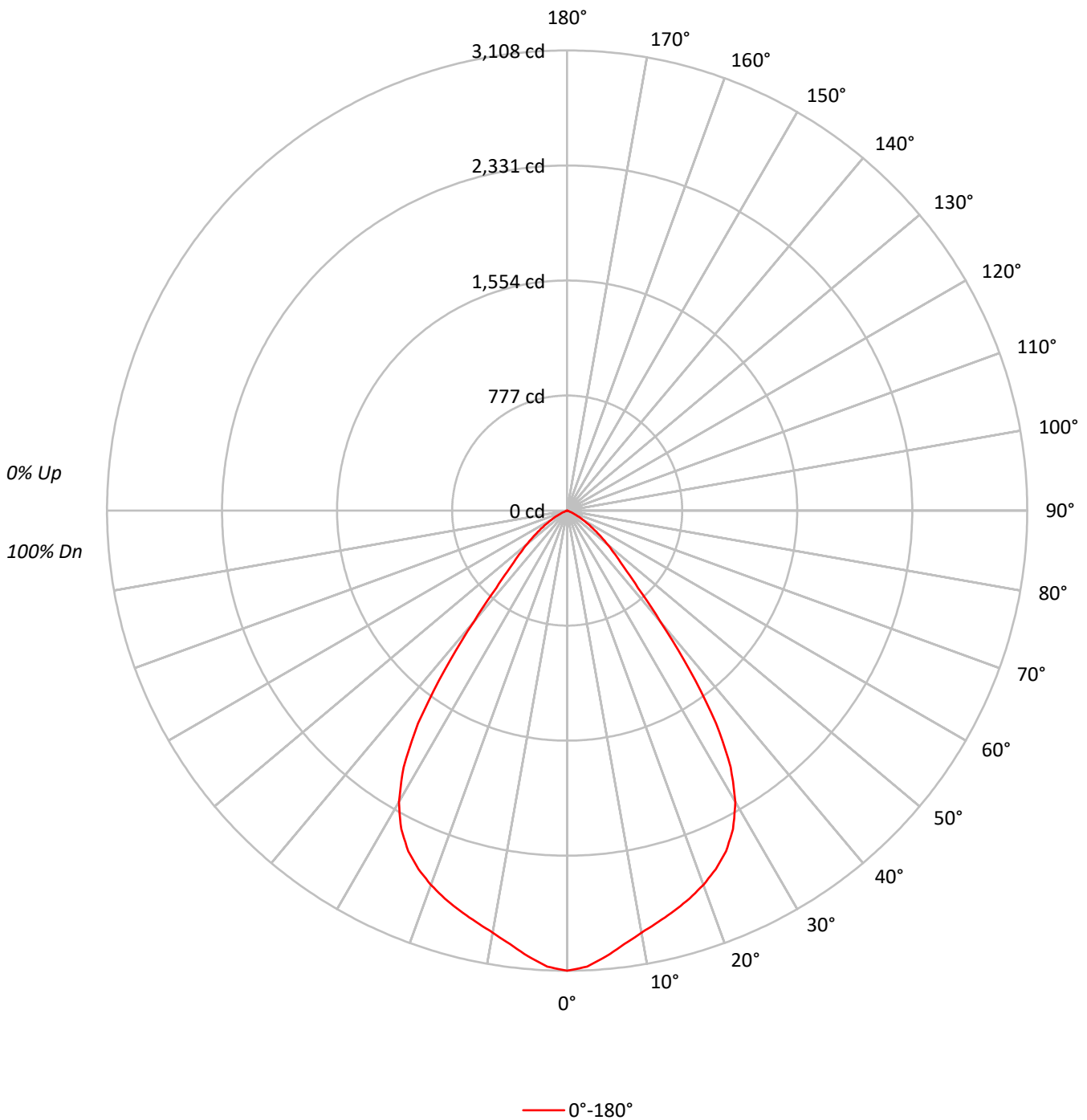
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70
5	88	79	72	67	87	78	72	67	76	71	66	74	70	66	73	69	65	64
6	83	73	66	61	82	72	66	61	71	65	61	69	64	60	68	63	60	58
7	78	68	61	56	77	67	61	56	66	60	56	65	59	56	63	59	55	54
8	74	63	56	52	73	63	56	52	61	56	51	60	55	51	59	55	51	49
9	70	59	52	48	69	58	52	48	57	52	48	57	51	47	56	51	47	46
10	66	55	49	44	65	55	49	44	54	48	44	53	48	44	52	47	44	43

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

	0°
0°	95827
5°	93562
10°	90629
15°	89317
20°	88267
25°	86370
30°	80898
35°	66058
40°	39437
45°	23684
50°	17074
55°	11618
60°	7284
65°	3575
70°	911
75°	346
80°	249
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	284.4	7.1
10°-20°	789.6	19.8
20°-30°	1159.5	29.1
30°-40°	1051.1	26.3
40°-50°	450.0	11.3
50°-60°	199.1	5.0
60°-70°	53.1	1.3
70°-80°	4.2	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°	2233.4	56.0
0°-40°	3284.5	82.3
0°-60°	3933.6	98.6
0°-90°	3991.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3991.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3108	
5°	3023	284
15°	2798	790
25°	2538	1159
35°	1755	1051
45°	543	450
55°	216	199
65°	49	53
75°	3	4
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3107.6
2.5°	3083.1
5°	3022.6
7.5°	2953.4
10°	2894.4
12.5°	2845.4
15°	2797.8
17.5°	2747.4
20°	2689.8
22.5°	2622.1
25°	2538.5
27.5°	2426.1
30°	2272.0
32.5°	2055.9
35°	1754.8
37.5°	1360.0
40°	979.7
42.5°	707.4
45°	543.1
47.5°	438.0
50°	355.9
52.5°	282.4
55°	216.1
57.5°	161.4
60°	118.1
62.5°	82.1
65°	49.0
67.5°	21.6
70°	10.1
72.5°	5.8
75°	2.9
77.5°	1.4
80°	1.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)