

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: P243809

Luminaire Tested: **LD8B50D010 ER8B50830 8LBW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P243809  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27941)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B50D010 ER8B50830 8LBW0LI  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5586.0 lumens  
Efficiency: N/A  
Efficacy: 105.4 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.17  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

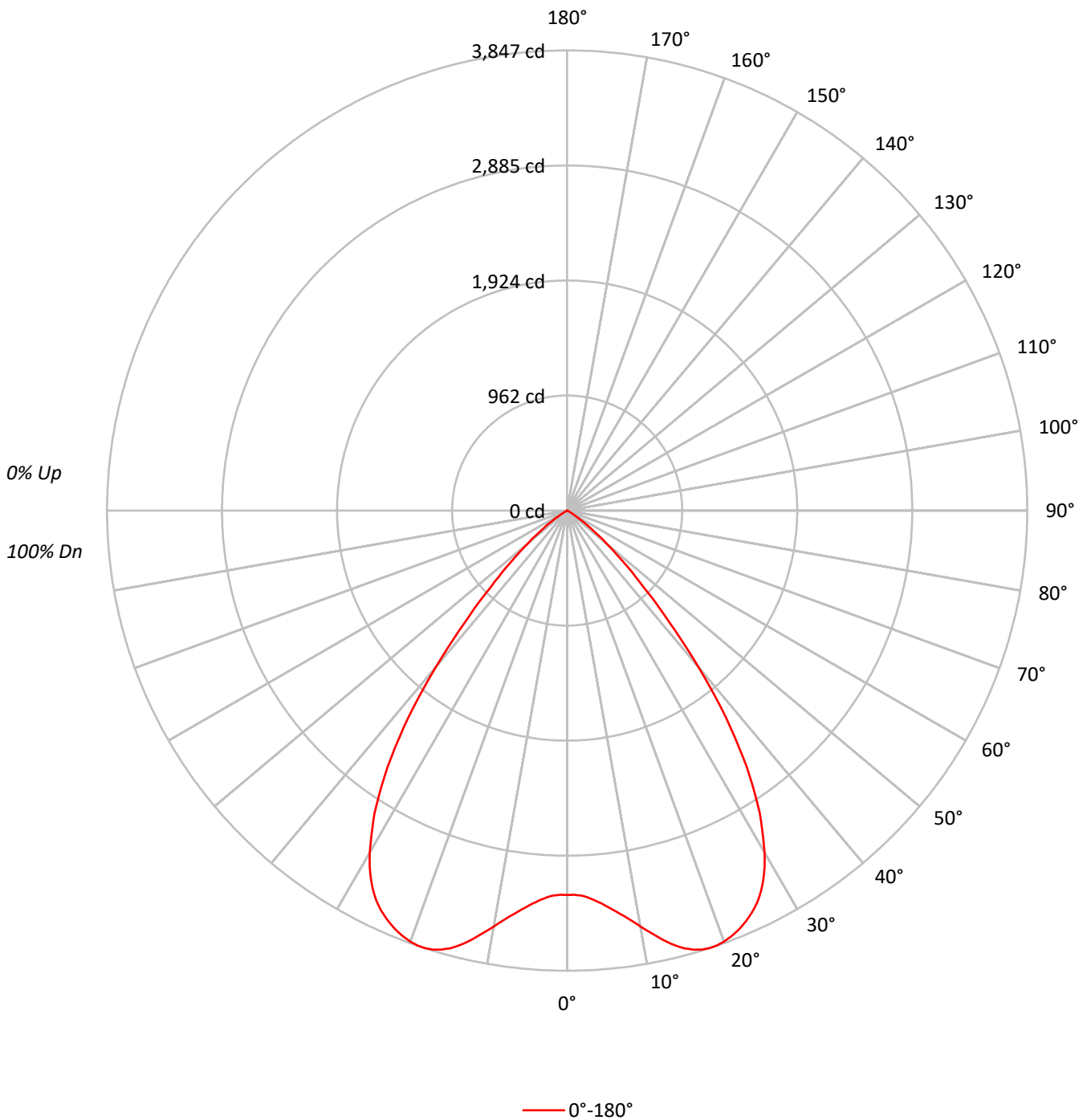
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92				92
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84				84
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77				77
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70				70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64				64
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58				58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54				54
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49				49
9	70	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45				45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42				42

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

	0°
0°	99108
5°	102040
10°	110544
15°	120951
20°	125830
25°	125369
30°	117598
35°	98609
40°	68657
45°	39322
50°	21113
55°	8709
60°	2171
65°	555
70°	279
75°	179
80°	266
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	322.3	5.8
10°-20°	1067.8	19.1
20°-30°	1680.1	30.1
30°-40°	1598.2	28.6
40°-50°	736.8	13.2
50°-60°	167.4	3.0
60°-70°	11.0	0.2
70°-80°	2.2	0.0
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°	3070.2	55.0
0°-40°	4668.4	83.6
0°-60°	5572.6	99.8
0°-90°	5586.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5586.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3214	
5°	3296	322
15°	3789	1068
25°	3685	1680
35°	2620	1598
45°	902	737
55°	162	167
65°	8	11
75°	2	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3214.0
1°	3212.5
2°	3218.6
3°	3236.9
4°	3264.4
5°	3296.5
6°	3336.3
7°	3379.1
8°	3423.4
9°	3475.3
10°	3530.4
11°	3585.4
12°	3643.5
13°	3698.5
14°	3748.9
15°	3788.7
16°	3817.7
17°	3837.6
18°	3846.7
19°	3845.2
20°	3834.5
21°	3816.2
22°	3793.2
23°	3762.7
24°	3727.5
25°	3684.7
26°	3634.3
27°	3570.1
28°	3493.7
29°	3405.0
30°	3302.7
32.5°	2995.5
35°	2619.5
37.5°	2182.4
40°	1705.6
42.5°	1260.8
45°	901.7
47.5°	638.8
50°	440.1
52.5°	281.2
55°	162.0
57.5°	81.0
60°	35.2
62.5°	13.8
65°	7.6



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	4.6
70°	3.1
72.5°	3.1
75°	1.5
77.5°	1.5
80°	1.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)