

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: P244361

Luminaire Tested: **LD8B50D010 ER8B50950 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244361  
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: LD8B50D010 ER8B50950 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4598.1 lumens  
Efficiency: N/A  
Efficacy: 86.8 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

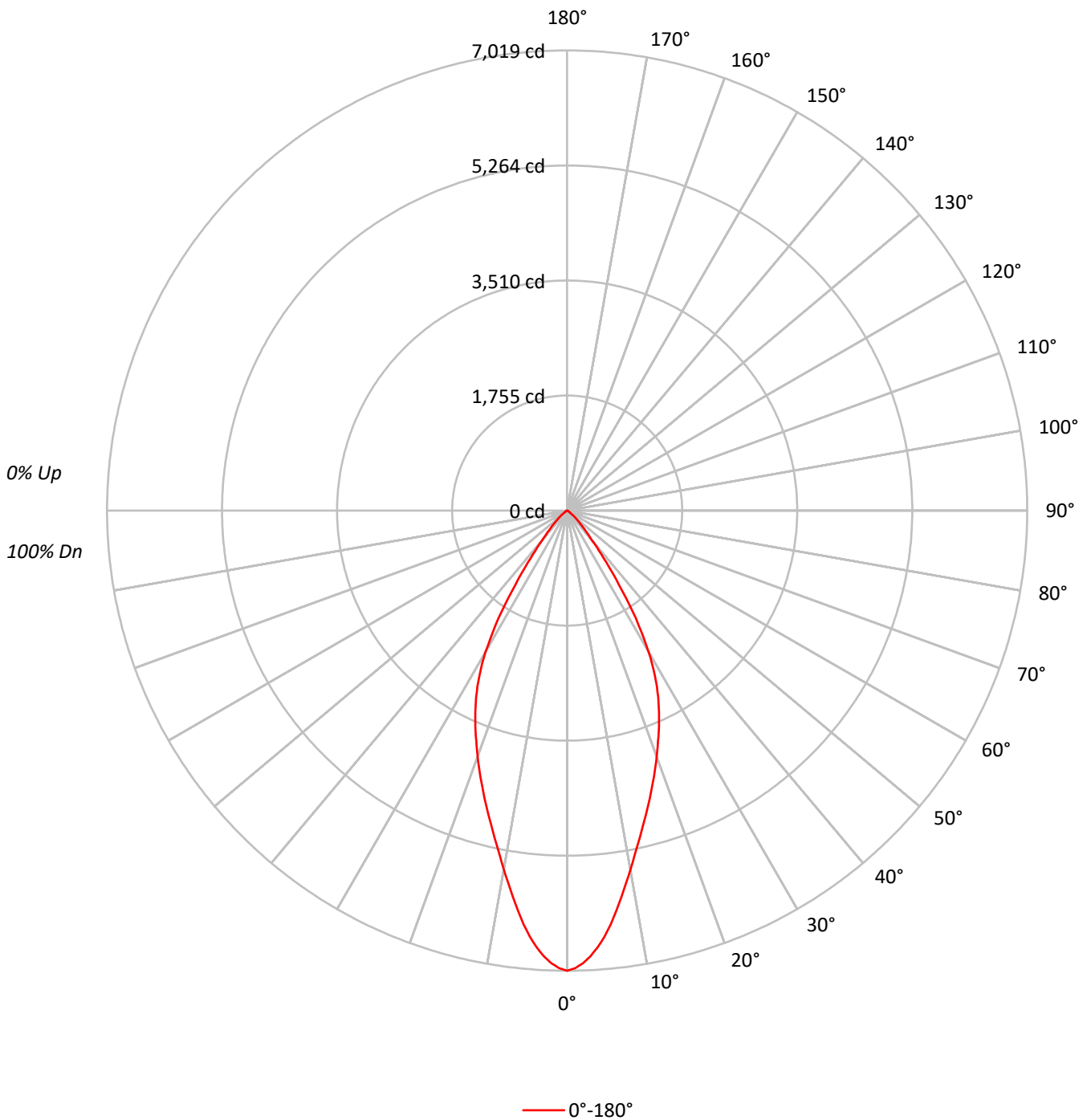
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	216437
5°	201883
10°	174023
15°	150605
20°	131012
25°	112589
30°	88468
35°	51618
40°	23814
45°	12324
50°	6184
55°	3005
60°	1529
65°	905
70°	424
75°	369
80°	284
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	590.2	12.8
10°-20°	1319.0	28.7
20°-30°	1499.7	32.6
30°-40°	880.7	19.2
40°-50°	236.4	5.1
50°-60°	56.1	1.2
60°-70°	12.8	0.3
70°-80°	2.9	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°	3409.0	74.1
0°-40°	4289.7	93.3
0°-60°	4582.2	99.7
0°-90°	4598.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4598.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7019	
5°	6522	590
15°	4718	1319
25°	3309	1500
35°	1371	881
45°	283	236
55°	56	56
65°	12	13
75°	3	3
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7018.9
1°	6980.1
2°	6908.6
3°	6807.7
4°	6677.3
5°	6522.0
6°	6346.5
7°	6147.7
8°	5949.0
9°	5748.7
10°	5557.7
11°	5371.3
12°	5195.8
13°	5032.8
14°	4869.7
15°	4717.6
16°	4568.5
17°	4421.0
18°	4278.1
19°	4133.7
20°	3992.4
21°	3851.1
22°	3716.0
23°	3582.4
24°	3445.8
25°	3309.1
26°	3167.8
27°	3014.1
28°	2852.6
29°	2675.6
30°	2484.6
32.5°	1948.8
35°	1371.2
37.5°	903.8
40°	591.6
42.5°	408.4
45°	282.6
47.5°	194.1
50°	128.9
52.5°	83.9
55°	55.9
57.5°	37.3
60°	24.8
62.5°	17.1
65°	12.4



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	7.8
70°	4.7
72.5°	3.1
75°	3.1
77.5°	1.6
80°	1.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)