

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: P249843

Luminaire Tested: **LD8B120D010 ER8B120940 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249843  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13959)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B120D010 ER8B120940 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9891.0 lumens  
Efficiency: N/A  
Efficacy: 83.6 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.81  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

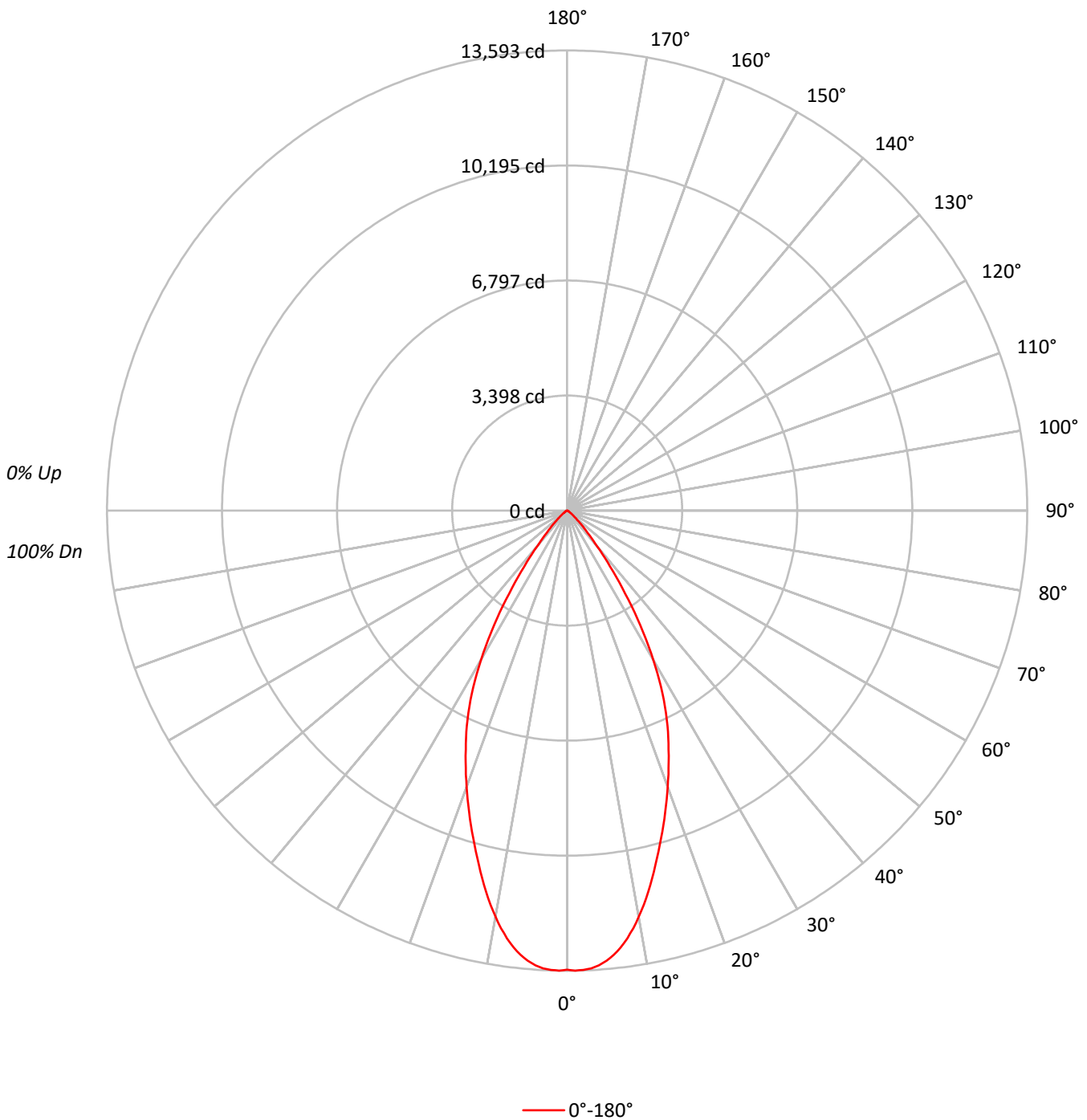
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	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	85	83	82
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74	81	77	74	79	76	73	71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	84	75	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63
8	81	71	65	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	57	64	60	57	56
10	73	64	58	55	72	64	58	55	63	58	54	62	57	54	61	57	54	53

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

	0°
0°	418329
5°	413194
10°	381603
15°	332748
20°	285034
25°	238591
30°	181516
35°	112518
40°	55510
45°	26418
50°	12847
55°	6301
60°	3922
65°	2685
70°	1506
75°	1191
80°	1190
85°	1168



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1237.1	12.5
10°-20°	2904.3	29.4
20°-30°	3174.3	32.1
30°-40°	1888.9	19.1
40°-50°	518.1	5.2
50°-60°	117.4	1.2
60°-70°	36.2	0.4
70°-80°	11.0	0.1
80°-90°	3.6	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°	7315.6	74.0
0°-40°	9204.6	93.1
0°-60°	9840.1	99.5
0°-90°	9891.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9891.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	13566	
5°	13349	###
15°	10423	2904
25°	7012	3174
35°	2989	1889
45°	606	518
55°	117	117
65°	37	36
75°	10	11
85°	3	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	13566.1
1°	13592.9
2°	13576.2
3°	13542.7
4°	13465.7
5°	13348.6
6°	13198.0
7°	12997.1
8°	12762.8
9°	12491.7
10°	12187.1
11°	11862.4
12°	11514.3
13°	11156.2
14°	10784.6
15°	10423.1
16°	10068.3
17°	9720.2
18°	9372.1
19°	9024.0
20°	8686.0
22.5°	7835.8
25°	7012.4
27.5°	6105.3
30°	5097.8
32.5°	4016.6
35°	2989.0
37.5°	2078.6
40°	1379.0
42.5°	903.7
45°	605.8
47.5°	401.7
50°	267.8
52.5°	164.0
55°	117.2
57.5°	83.7
60°	63.6
62.5°	46.9
65°	36.8
67.5°	23.4
70°	16.7
72.5°	13.4
75°	10.0
77.5°	6.7
80°	6.7



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	3.3
85°	3.3
87.5°	3.3
90°	0.0

(END OF REPORT)