

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge or
Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: LUMIERE

Report Number: H45048

Luminaire Tested: **1507-20T4-12-CS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: H45048
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 1507-20T4-12-CS
Description: LUMIERE MAUI 1507 LOW VOLTAGE PATHWAY FIXTURE
WITH CLEAR FLAT GLASS LENS
Light Source: BI PIN T4 CLEAR INCANDESCENT LAMP
20W 12V G6.35 20 WATTS
Ballast/Driver: -

Summary

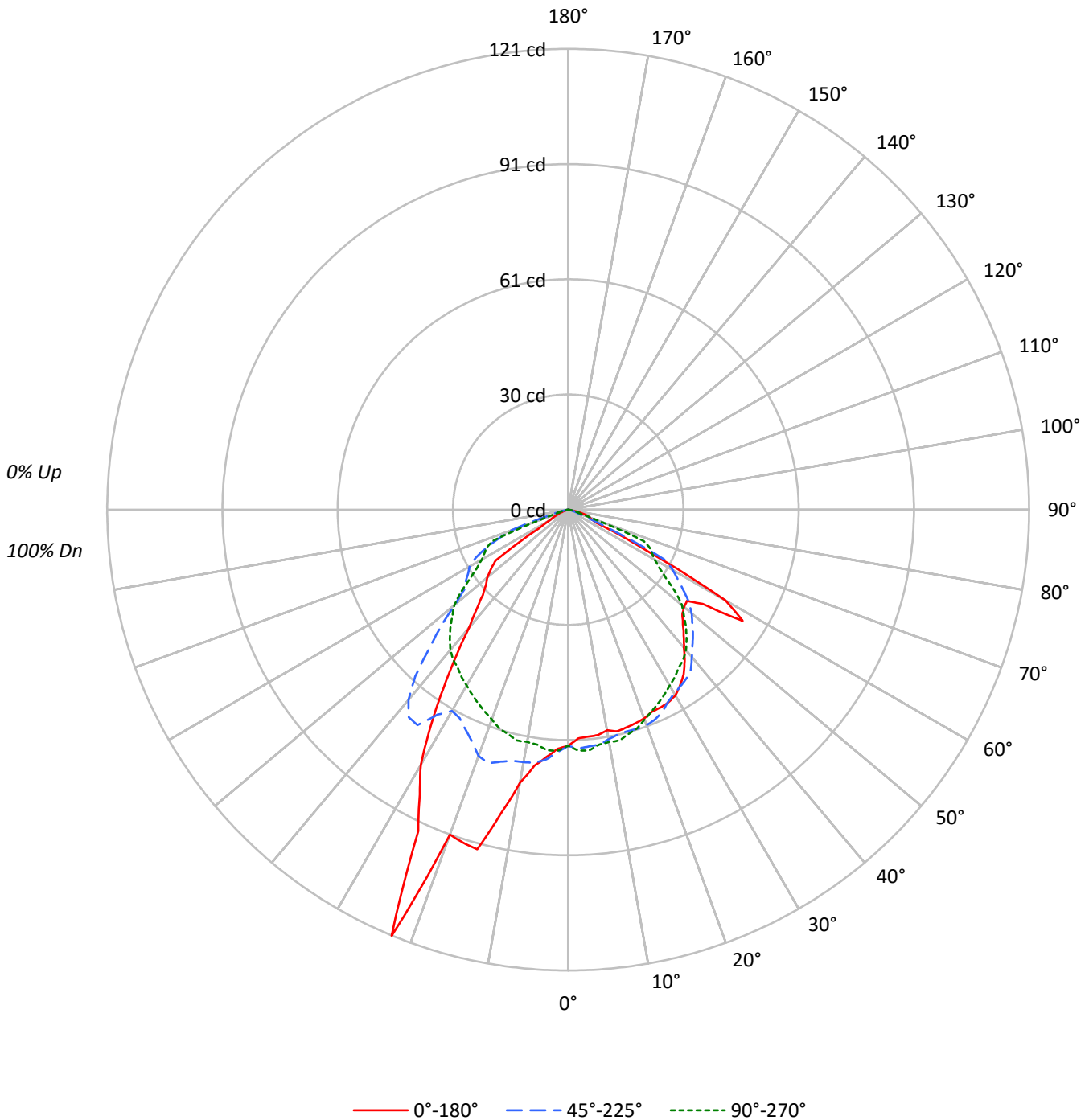
Lumens per Lamp: 350 (1 lamp)
Luminaire Lumens: 175.3 lumens
Efficiency: 50.1%
Efficacy: 8.8 lumens/watt
Spacing Criteria (0/90/45): 1.38 / 1.28 / 1.47
Luminous Opening: Rectangular (W 0.31' x L: 0.23' x H: 0')
CIE Type: Direct

Input Watts (W): 20
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	60	60	60	60	58	58	58	58	56	56	56	53	53	53	51	51	51	50				50
1	55	53	51	50	54	52	51	49	50	49	47	48	47	46	46	46	45	44				44
2	51	47	44	42	50	46	43	41	44	42	40	43	41	39	41	40	38	37				37
3	47	42	38	35	45	41	37	35	39	37	34	38	36	34	37	35	33	32				32
4	43	37	33	30	42	36	33	30	35	32	29	34	31	29	33	31	29	28				28
5	39	33	29	26	38	33	29	26	32	28	25	31	28	25	30	27	25	24				24
6	36	30	26	23	35	30	26	23	29	25	22	28	25	22	27	24	22	21				21
7	34	27	23	20	33	27	23	20	26	22	20	25	22	20	25	22	20	19				19
8	31	25	21	18	31	25	21	18	24	20	18	23	20	18	23	20	18	17				17
9	29	23	19	16	29	23	19	16	22	18	16	21	18	16	21	18	16	15				15
10	27	21	17	15	27	21	17	15	20	17	15	20	17	14	19	16	14	14				14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	9319	9319	9319
5°	9022	9566	9837
10°	8974	9447	11111
15°	9212	9492	14362
20°	9325	9373	14523
25°	9503	9287	15440
30°	9771	9250	13433
35°	9688	9284	10459
40°	9281	9438	7946
45°	9055	9289	6738
50°	9283	9119	6477
55°	11294	8202	6079
60°	14309	7876	1683
65°	2810	8393	1209
70°	2637	3384	747
75°	2381	1684	290
80°	779	866	346
85°	345	517	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	6.1	3.5	1.7
10°-20°	18.7	10.7	5.3
20°-30°	29.4	16.8	8.4
30°-40°	34.9	19.9	10.0
40°-50°	34.0	19.4	9.7
50°-60°	30.5	17.4	8.7
60°-70°	18.1	10.3	5.2
70°-80°	3.4	2.0	1.0
80°-90°	0.3	0.1	0.1
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	54.2	30.9	15.5
0°-40°	89.1	50.8	25.4
0°-60°	153.5	87.6	43.9
0°-90°	175.3	100.0	50.1
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	175.3	100.0	50.1

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	62	62	62	62	62	
5°	60	62	63	66	65	6
15°	59	60	61	68	92	17
25°	57	58	56	64	93	26
35°	53	54	51	69	57	33
45°	43	46	44	52	32	33
55°	43	37	31	33	23	41
65°	8	13	24	24	3	16
75°	4	2	3	4	0	4
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
2.5°	60.1	61.0	62.7	63.1	63.3	63.4	63.7	63.5	62.8
5°	59.8	60.0	62.4	62.6	63.4	63.7	65.8	66.3	65.2
7.5°	59.7	60.0	62.2	62.3	62.2	63.7	67.0	68.3	67.8
10°	58.8	59.3	61.2	61.0	61.9	63.3	67.3	71.8	72.8
12.5°	59.6	59.0	60.4	61.6	62.1	63.9	67.5	77.9	81.8
15°	59.2	58.7	60.2	61.4	61.0	64.1	68.5	83.0	92.3
17.5°	58.8	57.7	60.3	60.7	60.2	63.1	69.8	87.0	91.7
20°	58.3	57.5	60.2	59.9	58.6	61.7	68.8	85.1	90.8
22.5°	57.4	57.2	59.6	58.4	57.3	59.6	65.9	88.9	121.1
25°	57.3	56.9	58.5	57.2	56.0	58.1	63.7	82.8	93.1
27.5°	57.0	56.5	56.8	56.5	54.7	56.8	61.7	79.8	84.3
30°	56.3	56.1	55.7	55.4	53.3	55.3	61.0	78.4	77.4
32.5°	54.7	55.1	54.9	54.0	52.1	53.4	63.8	72.8	66.9
35°	52.8	53.3	54.1	52.3	50.6	51.8	69.0	63.0	57.0
37.5°	50.2	50.6	52.9	51.2	49.6	50.7	68.7	52.6	48.1
40°	47.3	47.5	50.5	50.2	48.1	49.6	65.2	44.1	40.5
42.5°	44.9	45.1	48.3	48.4	46.0	48.0	59.4	38.8	35.6
45°	42.6	43.3	46.3	46.0	43.7	46.3	51.5	35.8	31.7
47.5°	40.6	41.0	44.2	43.7	41.2	44.2	45.3	34.8	29.3
50°	39.7	39.4	42.3	41.5	39.0	42.0	38.6	32.8	27.7
52.5°	39.3	38.4	40.0	39.4	35.5	40.0	34.3	29.6	25.5
55°	43.1	38.1	36.9	36.6	31.3	39.0	32.9	26.1	23.2
57.5°	54.3	37.3	34.2	32.9	28.3	37.4	31.1	21.6	9.0
60°	47.6	34.2	31.7	30.9	26.2	35.7	29.9	19.0	5.6
62.5°	22.6	22.7	29.0	28.9	24.8	34.0	27.4	17.2	4.4
65°	7.9	8.0	13.0	25.8	23.6	32.8	23.7	4.6	3.4
67.5°	6.7	5.3	3.9	9.4	21.5	32.4	19.6	5.0	2.6
70°	6.0	4.4	2.9	2.4	7.7	28.9	16.2	5.1	1.7
72.5°	5.3	3.5	2.1	1.8	2.0	7.8	5.9	1.9	0.7
75°	4.1	2.7	1.5	1.2	2.9	9.5	4.0	1.1	0.5
77.5°	2.3	1.9	1.0	0.8	1.1	4.3	1.4	0.6	0.5
80°	0.9	1.0	0.6	0.6	1.0	1.1	0.8	0.4	0.4
82.5°	0.5	0.4	0.3	0.3	0.7	0.7	0.4	0.2	0.2
85°	0.2	0.2	0.1	0.1	0.3	0.2	0.1	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)