

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: INVUE

Report Number: P184459

Luminaire Tested: **66EN-LD2-25-UNV-L850-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34466)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: 66EN-LD2-25-UNV-L850-CD1-U
Description: METALUX ENCOUNTER 600X600 TROFFER

Light Source: EATON LED 5000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

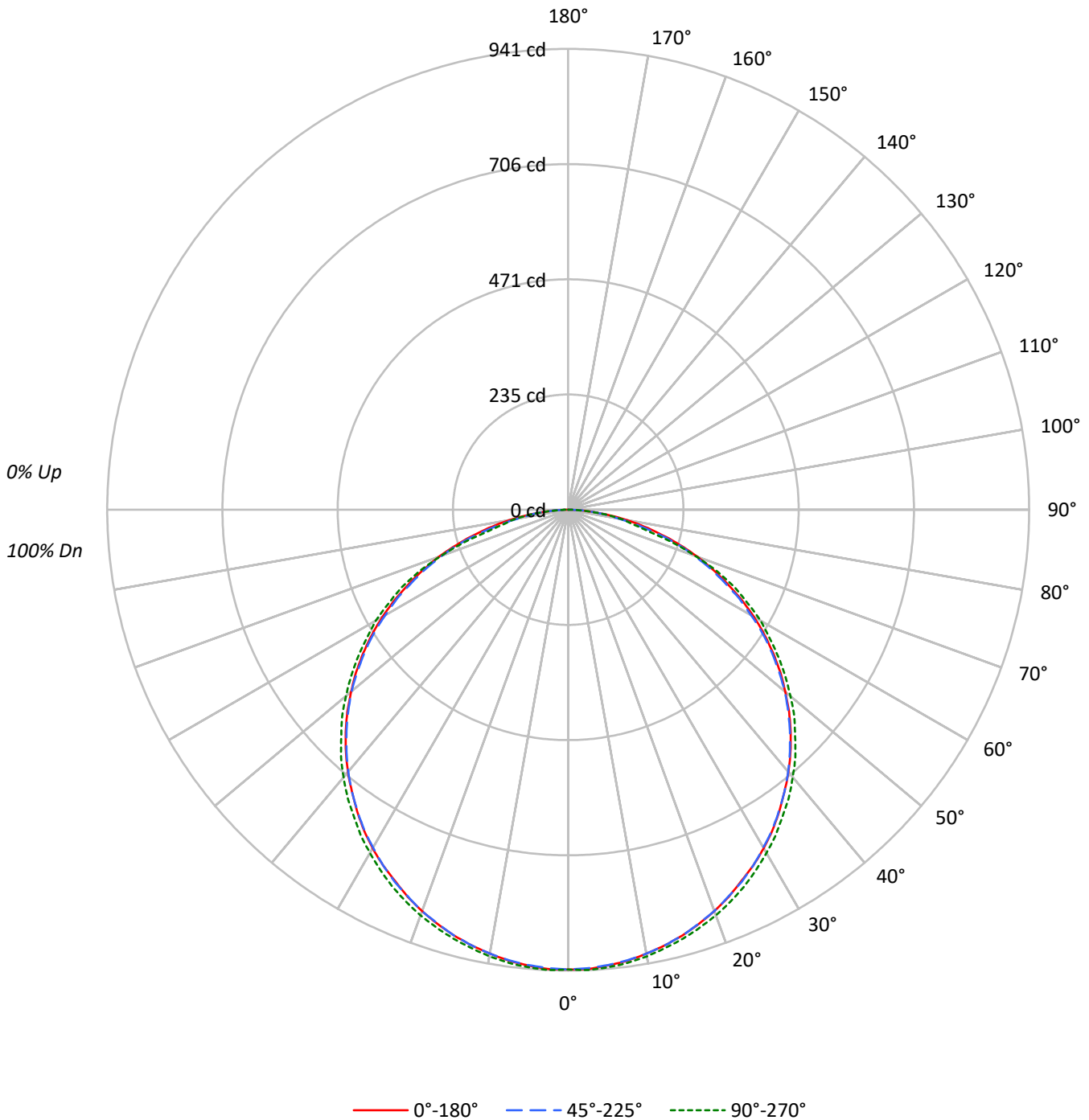
Lumens per Lamp: N/A
Luminaire Lumens: 2764.2 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.39
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2527	2527	2527
5°	2524	2521	2534
10°	2515	2515	2530
15°	2508	2508	2526
20°	2498	2498	2525
25°	2483	2488	2521
30°	2481	2475	2515
35°	2468	2464	2507
40°	2457	2453	2505
45°	2443	2436	2492
50°	2421	2416	2478
55°	2396	2378	2457
60°	2355	2320	2440
65°	2285	2245	2386
70°	2205	2154	2176
75°	2059	1962	1740
80°	1849	1605	1720
85°	1371	1399	1430



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.8	3.2
10°-20°	254.5	9.2
20°-30°	387.3	14.0
30°-40°	471.6	17.1
40°-50°	496.9	18.0
50°-60°	457.1	16.5
60°-70°	355.0	12.8
70°-80°	199.0	7.2
80°-90°	53.9	2.0
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°	730.6	26.4
0°-40°	1202.3	43.5
0°-60°	2156.2	78.0
0°-90°	2764.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2764.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	939	939	939	939	939	
5°	934	933	933	936	938	89
15°	900	899	900	904	907	254
25°	836	836	838	843	849	386
35°	751	749	750	757	763	470
45°	642	641	640	648	655	495
55°	511	509	507	514	524	456
65°	359	356	352	363	375	356
75°	198	195	189	173	167	210
85°	44	44	45	45	46	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	938.9	938.9	938.9	938.9	938.9
2.5°	938.9	938.0	937.1	938.9	940.8
5°	934.3	933.4	933.4	936.2	938.0
7.5°	928.8	927.8	927.8	930.6	933.4
10°	920.4	920.4	920.4	923.2	926.0
12.5°	911.2	910.3	911.2	914.0	916.7
15°	900.1	899.2	900.1	903.8	906.6
17.5°	887.1	885.3	886.2	890.8	894.5
20°	872.3	871.4	872.3	877.0	881.6
22.5°	855.7	854.8	854.8	860.3	865.9
25°	836.3	836.3	838.1	842.7	849.2
27.5°	818.7	816.8	818.7	824.2	829.8
30°	798.3	796.5	796.5	803.9	809.4
32.5°	776.1	773.4	775.2	780.8	788.2
35°	751.2	749.3	750.2	756.7	763.2
37.5°	725.3	724.3	725.3	731.7	740.1
40°	699.4	697.5	698.4	705.8	713.2
42.5°	671.6	670.7	669.7	677.1	686.4
45°	642.0	641.1	640.1	647.5	654.9
47.5°	611.5	609.6	608.7	616.1	626.3
50°	578.2	578.2	577.2	582.8	592.0
52.5°	545.8	543.9	542.1	548.6	558.7
55°	510.6	508.8	506.9	514.3	523.6
57.5°	474.6	472.7	470.9	476.4	487.5
60°	437.6	435.7	431.1	440.3	453.3
62.5°	399.6	395.9	394.1	402.4	412.6
65°	358.9	356.2	352.5	362.6	374.7
67.5°	320.1	315.4	313.6	321.0	329.3
70°	280.3	276.6	273.8	274.7	276.6
72.5°	238.7	236.8	234.0	225.7	223.9
75°	198.0	195.2	188.7	173.0	167.4
77.5°	159.1	157.3	144.3	131.4	133.2
80°	119.3	117.5	103.6	106.4	111.0
82.5°	83.3	78.6	76.8	75.9	78.6
85°	44.4	44.4	45.3	45.3	46.3
87.5°	18.5	18.5	20.4	20.4	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)