

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: P184461

Luminaire Tested: **66EN-LD2-30-UNV-L830-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184461
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-LD2-30-UNV-L830-CD1-U
Description: METALUX ENCOUNTER 600X600 TROFFER

Light Source: EATON LED 3000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2807.3 lumens
Efficiency: N/A
Efficacy: 112.7 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

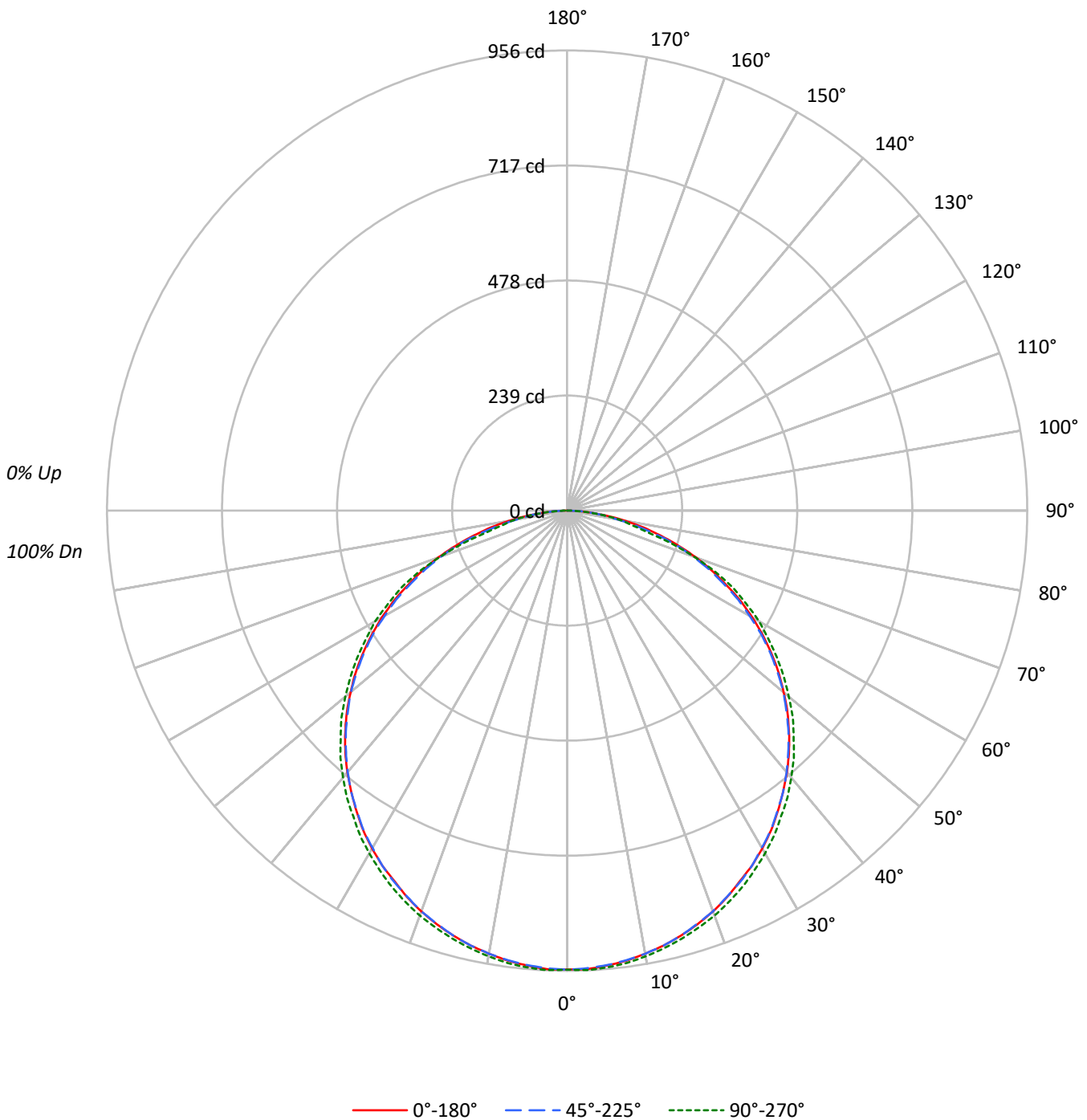
Input Watts (W): 24.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2566	2566	2566
5°	2563	2561	2573
10°	2554	2554	2570
15°	2547	2547	2565
20°	2537	2537	2564
25°	2522	2527	2561
30°	2519	2513	2554
35°	2506	2503	2546
40°	2495	2492	2545
45°	2481	2474	2531
50°	2458	2454	2517
55°	2433	2416	2495
60°	2392	2356	2478
65°	2321	2280	2423
70°	2240	2188	2210
75°	2091	1993	1769
80°	1878	1630	1746
85°	1392	1420	1451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.2	3.2
10°-20°	258.4	9.2
20°-30°	393.4	14.0
30°-40°	479.0	17.1
40°-50°	504.7	18.0
50°-60°	464.2	16.5
60°-70°	360.6	12.8
70°-80°	202.1	7.2
80°-90°	54.7	1.9
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°	742.0	26.4
0°-40°	1221.0	43.5
0°-60°	2189.9	78.0
0°-90°	2807.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2807.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	954	954	954	954	954	
5°	949	948	948	951	953	90
15°	914	913	914	918	921	258
25°	849	849	851	856	862	392
35°	763	761	762	768	775	477
45°	652	651	650	658	665	503
55°	519	517	515	522	532	463
65°	364	362	358	368	380	361
75°	201	198	192	176	170	213
85°	45	45	46	46	47	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	953.6	953.6	953.6	953.6	953.6
2.5°	953.6	952.7	951.7	953.6	955.5
5°	948.9	948.0	948.0	950.8	952.7
7.5°	943.3	942.3	942.3	945.1	948.0
10°	934.8	934.8	934.8	937.6	940.4
12.5°	925.4	924.5	925.4	928.2	931.1
15°	914.1	913.2	914.1	917.9	920.7
17.5°	901.0	899.1	900.0	904.7	908.5
20°	886.0	885.0	886.0	890.7	895.4
22.5°	869.0	868.1	868.1	873.7	879.4
25°	849.3	849.3	851.2	855.9	862.5
27.5°	831.5	829.6	831.5	837.1	842.7
30°	810.8	808.9	808.9	816.4	822.1
32.5°	788.2	785.4	787.3	792.9	800.5
35°	762.9	761.0	761.9	768.5	775.1
37.5°	736.6	735.6	736.6	743.2	751.6
40°	710.3	708.4	709.3	716.8	724.4
42.5°	682.1	681.1	680.2	687.7	697.1
45°	652.0	651.1	650.1	657.7	665.2
47.5°	621.0	619.1	618.2	625.7	636.0
50°	587.2	587.2	586.3	591.9	601.3
52.5°	554.3	552.4	550.6	557.1	567.5
55°	518.6	516.7	514.9	522.4	531.8
57.5°	482.0	480.1	478.2	483.8	495.1
60°	444.4	442.5	437.8	447.2	460.4
62.5°	405.9	402.1	400.2	408.7	419.0
65°	364.5	361.7	358.0	368.3	380.5
67.5°	325.1	320.4	318.5	326.0	334.5
70°	284.7	280.9	278.1	279.0	280.9
72.5°	242.4	240.5	237.7	229.2	227.4
75°	201.1	198.2	191.7	175.7	170.1
77.5°	161.6	159.7	146.6	133.4	135.3
80°	121.2	119.3	105.2	108.0	112.7
82.5°	84.6	79.9	78.0	77.0	79.9
85°	45.1	45.1	46.0	46.0	47.0
87.5°	18.8	18.8	20.7	20.7	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)