

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: P184476

Luminaire Tested: **66EN-LD2-43-UNV-L830-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184476
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-LD2-43-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: 4085.1 lumens
Efficiency: N/A
Efficacy: 106.7 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

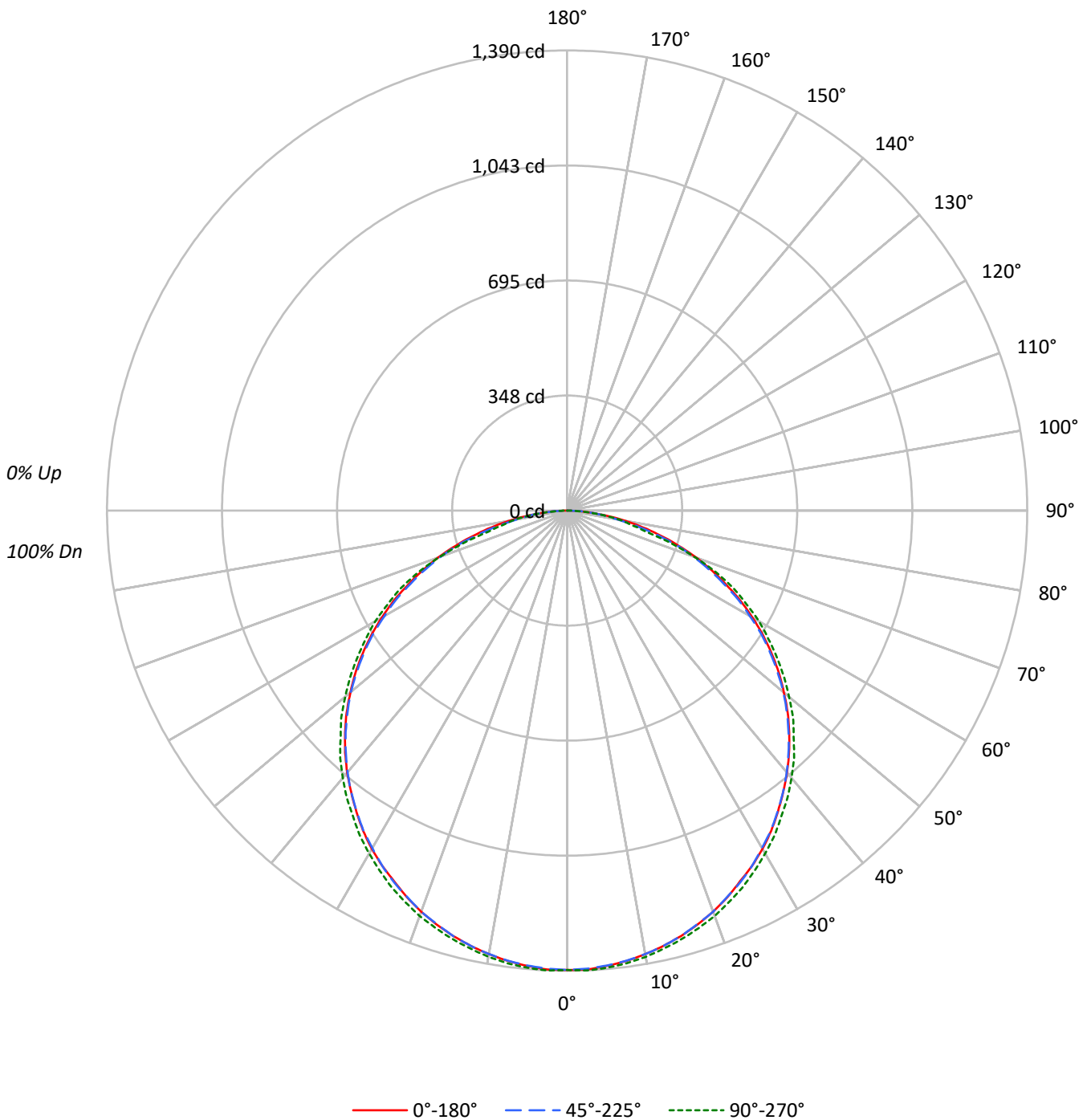
Input Watts (W): 38.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3734	3734	3734
5°	3730	3726	3745
10°	3717	3717	3739
15°	3706	3706	3733
20°	3692	3692	3731
25°	3670	3678	3726
30°	3666	3658	3717
35°	3647	3642	3705
40°	3631	3626	3703
45°	3611	3600	3683
50°	3577	3571	3663
55°	3541	3515	3630
60°	3481	3429	3605
65°	3377	3317	3526
70°	3259	3184	3216
75°	3042	2900	2573
80°	2734	2373	2543
85°	2025	2069	2112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	3.2
10°-20°	376.1	9.2
20°-30°	572.4	14.0
30°-40°	697.0	17.1
40°-50°	734.4	18.0
50°-60°	675.5	16.5
60°-70°	524.7	12.8
70°-80°	294.1	7.2
80°-90°	79.6	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°	1079.7	26.4
0°-40°	1776.8	43.5
0°-60°	3186.6	78.0
0°-90°	4085.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4085.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1388	1388	1388	1388	1388	
5°	1381	1379	1379	1384	1386	131
15°	1330	1329	1330	1336	1340	375
25°	1236	1236	1239	1246	1255	571
35°	1110	1107	1109	1118	1128	695
45°	949	947	946	957	968	732
55°	755	752	749	760	774	674
65°	530	526	521	536	554	526
75°	293	288	279	256	248	310
85°	66	66	67	67	68	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1387.6	1387.6	1387.6	1387.6	1387.6
2.5°	1387.6	1386.3	1384.9	1387.6	1390.4
5°	1380.8	1379.4	1379.4	1383.5	1386.3
7.5°	1372.6	1371.2	1371.2	1375.3	1379.4
10°	1360.3	1360.3	1360.3	1364.4	1368.5
12.5°	1346.6	1345.3	1346.6	1350.7	1354.8
15°	1330.2	1328.8	1330.2	1335.7	1339.8
17.5°	1311.1	1308.3	1309.7	1316.5	1322.0
20°	1289.2	1287.8	1289.2	1296.0	1302.9
22.5°	1264.6	1263.2	1263.2	1271.4	1279.6
25°	1235.9	1235.9	1238.6	1245.5	1255.0
27.5°	1209.9	1207.2	1209.9	1218.1	1226.3
30°	1179.8	1177.1	1177.1	1188.0	1196.2
32.5°	1147.0	1142.9	1145.7	1153.9	1164.8
35°	1110.1	1107.4	1108.7	1118.3	1127.9
37.5°	1071.8	1070.5	1071.8	1081.4	1093.7
40°	1033.5	1030.8	1032.2	1043.1	1054.1
42.5°	992.5	991.2	989.8	1000.7	1014.4
45°	948.8	947.4	946.1	957.0	967.9
47.5°	903.7	900.9	899.6	910.5	925.5
50°	854.5	854.5	853.1	861.3	875.0
52.5°	806.6	803.9	801.1	810.7	825.7
55°	754.7	751.9	749.2	760.1	773.8
57.5°	701.3	698.6	695.9	704.1	720.5
60°	646.7	643.9	637.1	650.8	669.9
62.5°	590.6	585.1	582.4	594.7	609.7
65°	530.4	526.3	520.9	535.9	553.7
67.5°	473.0	466.2	463.5	474.4	486.7
70°	414.2	408.8	404.7	406.0	408.8
72.5°	352.7	350.0	345.9	333.6	330.8
75°	292.6	288.5	278.9	255.7	247.5
77.5°	235.1	232.4	213.3	194.1	196.9
80°	176.4	173.6	153.1	157.2	164.1
82.5°	123.0	116.2	113.5	112.1	116.2
85°	65.6	65.6	67.0	67.0	68.4
87.5°	27.3	27.3	30.1	30.1	30.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)