

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: P184553

Luminaire Tested: **36EN-LD2-35-UNV-L840-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34514)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: 36EN-LD2-35-UNV-L840-CD1-U
Description: METALUX ENCOUNTER 300X600 TROFFER

Light Source: EATON LED 4000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

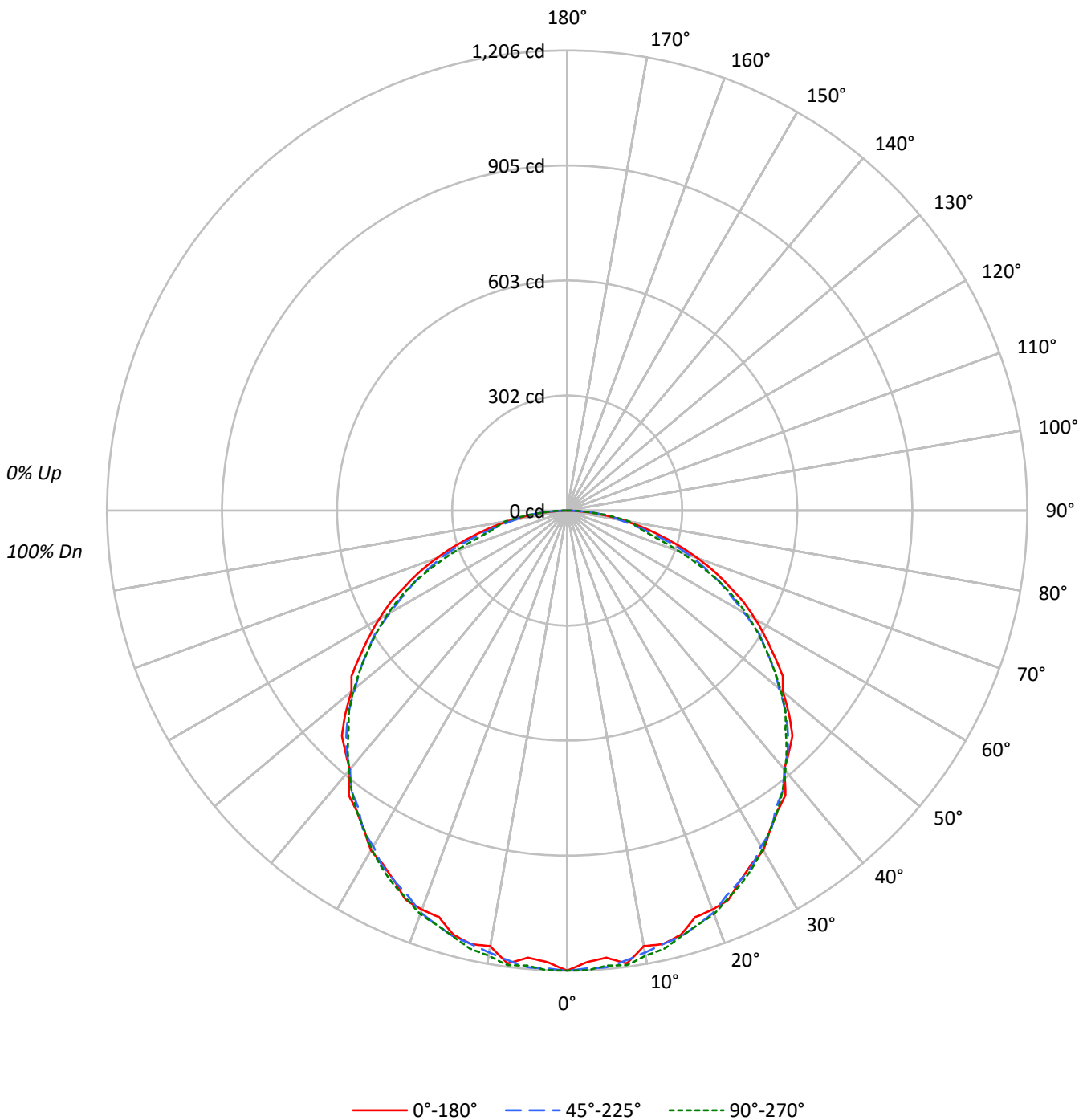
Lumens per Lamp: N/A
Luminaire Lumens: 3505.5 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 31.4
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83				83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69				69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58				58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49				49
5	75	62	53	46	73	61	53	46	59	52	46	57	50	45	55	49	45	43				43
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37				37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33				33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29				29
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26				26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24				24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6489	6489	6489
5°	6354	6491	6468
10°	6336	6427	6474
15°	6412	6436	6436
20°	6374	6422	6447
25°	6359	6359	6409
30°	6392	6314	6366
35°	6315	6259	6315
40°	6220	6220	6249
45°	6353	6224	6161
50°	6177	6071	6106
55°	6210	5973	5973
60°	6126	5763	5853
65°	5959	5583	5583
70°	5704	5374	4910
75°	5259	4733	4296
80°	4705	4311	5095
85°	3903	4428	4162



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.0	3.3
10°-20°	325.5	9.3
20°-30°	495.5	14.1
30°-40°	600.3	17.1
40°-50°	629.6	18.0
50°-60°	575.9	16.4
60°-70°	440.1	12.6
70°-80°	247.4	7.1
80°-90°	77.2	2.2
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°	935.0	26.7
0°-40°	1535.3	43.8
0°-60°	2740.8	78.2
0°-90°	3505.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3505.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1206	1206	1206	1206	1206	
5°	1176	1197	1201	1210	1197	113
15°	1151	1151	1155	1155	1155	323
25°	1071	1075	1071	1079	1079	495
35°	961	957	953	961	961	603
45°	835	822	818	809	809	636
55°	662	653	637	637	637	591
65°	468	455	438	434	438	464
75°	253	244	228	211	207	269
85°	63	63	72	67	67	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1205.7	1205.7	1205.7	1205.7	1205.7
2.5°	1184.6	1201.4	1201.4	1209.9	1205.7
5°	1176.1	1197.2	1201.4	1209.9	1197.2
7.5°	1197.2	1193.0	1188.8	1197.2	1201.4
10°	1159.3	1176.1	1176.1	1197.2	1184.6
12.5°	1163.5	1167.7	1163.5	1163.5	1176.1
15°	1150.8	1150.8	1155.1	1155.1	1155.1
17.5°	1117.1	1134.0	1138.2	1142.4	1138.2
20°	1112.9	1117.1	1121.3	1125.6	1125.6
22.5°	1104.5	1096.0	1091.8	1108.7	1100.3
25°	1070.8	1075.0	1070.8	1079.2	1079.2
27.5°	1045.5	1045.5	1049.7	1045.5	1053.9
30°	1028.6	1024.4	1016.0	1024.4	1024.4
32.5°	990.7	994.9	994.9	990.7	990.7
35°	961.1	956.9	952.7	961.1	961.1
37.5°	940.1	919.0	927.4	923.2	927.4
40°	885.3	897.9	885.3	885.3	889.5
42.5°	860.0	855.8	855.8	851.5	851.5
45°	834.7	822.0	817.8	809.4	809.4
47.5°	788.3	788.3	775.7	767.2	775.7
50°	737.7	741.9	725.1	720.9	729.3
52.5°	712.4	699.8	682.9	687.1	682.9
55°	661.8	653.4	636.6	636.6	636.6
57.5°	615.5	611.3	594.4	590.2	590.2
60°	569.1	560.7	535.4	539.6	543.8
62.5°	522.7	510.1	484.8	493.2	493.2
65°	467.9	455.3	438.4	434.2	438.4
67.5°	417.3	400.5	387.8	383.6	375.2
70°	362.5	354.1	341.5	316.2	312.0
72.5°	307.7	295.1	286.7	257.1	252.9
75°	252.9	244.5	227.6	210.8	206.6
77.5°	202.3	198.1	177.1	177.1	185.5
80°	151.8	147.5	139.1	156.0	164.4
82.5°	105.4	101.2	113.8	118.0	118.0
85°	63.2	63.2	71.7	67.4	67.4
87.5°	25.3	29.5	29.5	33.7	33.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)