

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: P184458

Luminaire Tested: **66EN-LD2-25-UNV-L840-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184458
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-L840-CD1-U
Description: METALUX ENCOUNTER 600X600 TROFFER

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2540.1 lumens
Efficiency: N/A
Efficacy: 127.0 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

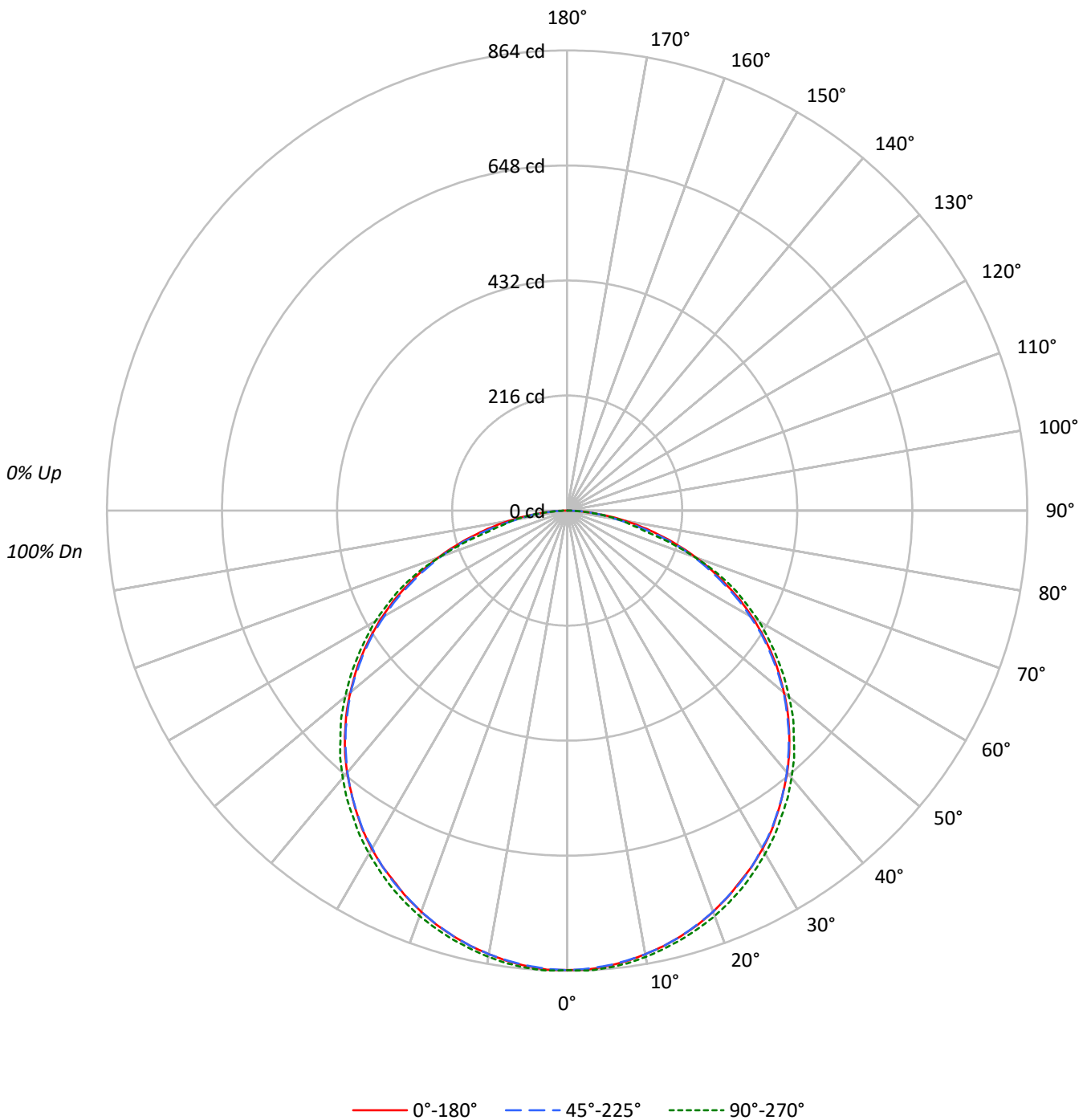
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2322	2322	2322
5°	2319	2317	2328
10°	2311	2311	2325
15°	2304	2304	2321
20°	2296	2296	2320
25°	2282	2287	2317
30°	2279	2274	2311
35°	2268	2265	2304
40°	2257	2255	2302
45°	2245	2238	2290
50°	2224	2220	2277
55°	2201	2185	2257
60°	2164	2132	2242
65°	2100	2062	2192
70°	2027	1980	2000
75°	1891	1803	1600
80°	1700	1475	1581
85°	1260	1288	1312



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.6	3.2
10°-20°	233.8	9.2
20°-30°	355.9	14.0
30°-40°	433.4	17.1
40°-50°	456.6	18.0
50°-60°	420.0	16.5
60°-70°	326.3	12.8
70°-80°	182.9	7.2
80°-90°	49.5	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°	671.4	26.4
0°-40°	1104.8	43.5
0°-60°	1981.4	78.0
0°-90°	2540.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2540.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	863	863	863	863	863	
5°	859	858	858	860	862	82
15°	827	826	827	830	833	233
25°	768	768	770	774	780	355
35°	690	689	689	695	701	432
45°	590	589	588	595	602	455
55°	469	468	466	473	481	419
65°	330	327	324	333	344	327
75°	182	179	173	159	154	193
85°	41	41	42	42	42	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	862.8	862.8	862.8	862.8	862.8
2.5°	862.8	862.0	861.1	862.8	864.5
5°	858.6	857.7	857.7	860.3	862.0
7.5°	853.5	852.6	852.6	855.2	857.7
10°	845.8	845.8	845.8	848.4	850.9
12.5°	837.3	836.5	837.3	839.9	842.4
15°	827.1	826.3	827.1	830.5	833.1
17.5°	815.2	813.5	814.4	818.6	822.0
20°	801.6	800.8	801.6	805.9	810.1
22.5°	786.3	785.5	785.5	790.6	795.7
25°	768.5	768.5	770.2	774.4	780.4
27.5°	752.3	750.6	752.3	757.4	762.5
30°	733.6	731.9	731.9	738.7	743.8
32.5°	713.2	710.7	712.4	717.5	724.3
35°	690.3	688.6	689.4	695.4	701.3
37.5°	666.4	665.6	666.4	672.4	680.0
40°	642.6	640.9	641.8	648.6	655.4
42.5°	617.1	616.3	615.4	622.2	630.7
45°	589.9	589.1	588.2	595.0	601.8
47.5°	561.9	560.2	559.3	566.1	575.5
50°	531.3	531.3	530.4	535.5	544.0
52.5°	501.5	499.8	498.1	504.1	513.4
55°	469.2	467.5	465.8	472.6	481.1
57.5°	436.1	434.4	432.7	437.8	448.0
60°	402.1	400.4	396.1	404.6	416.5
62.5°	367.2	363.8	362.1	369.8	379.1
65°	329.8	327.3	323.9	333.2	344.3
67.5°	294.1	289.9	288.2	295.0	302.6
70°	257.6	254.2	251.6	252.5	254.2
72.5°	219.3	217.6	215.1	207.4	205.7
75°	181.9	179.4	173.4	159.0	153.9
77.5°	146.2	144.5	132.6	120.7	122.4
80°	109.7	108.0	95.2	97.8	102.0
82.5°	76.5	72.3	70.6	69.7	72.3
85°	40.8	40.8	41.7	41.7	42.5
87.5°	17.0	17.0	18.7	18.7	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)