

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: P184456

Luminaire Tested: **66EN-LD2-25-UNV-L830-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184456
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-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: 2415.5 lumens
Efficiency: N/A
Efficacy: 120.8 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

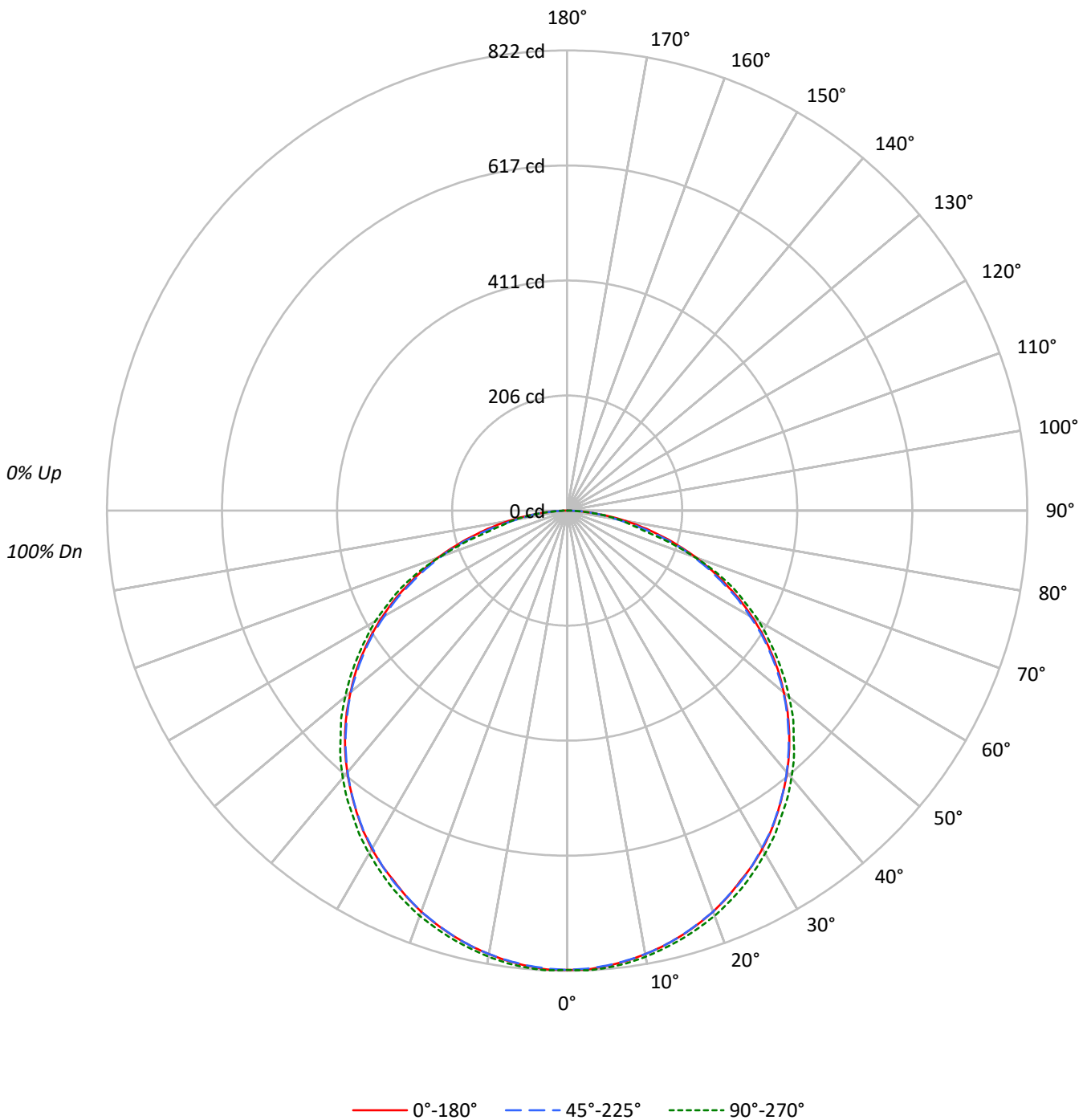
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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°	2208	2208	2208
5°	2206	2203	2214
10°	2198	2198	2211
15°	2191	2191	2207
20°	2183	2183	2206
25°	2170	2175	2203
30°	2168	2163	2198
35°	2156	2154	2191
40°	2147	2144	2190
45°	2135	2129	2178
50°	2115	2112	2166
55°	2093	2078	2147
60°	2058	2027	2132
65°	1997	1961	2085
70°	1927	1883	1902
75°	1799	1714	1521
80°	1616	1402	1503
85°	1198	1223	1247



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.6	3.2
10°-20°	222.4	9.2
20°-30°	338.5	14.0
30°-40°	412.2	17.1
40°-50°	434.2	18.0
50°-60°	399.4	16.5
60°-70°	310.3	12.8
70°-80°	173.9	7.2
80°-90°	47.1	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°	638.5	26.4
0°-40°	1050.6	43.5
0°-60°	1884.3	78.0
0°-90°	2415.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2415.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	820	820	820	820	820	
5°	816	816	816	818	820	78
15°	787	786	787	790	792	222
25°	731	731	732	736	742	337
35°	656	655	656	661	667	411
45°	561	560	559	566	572	433
55°	446	445	443	450	458	399
65°	314	311	308	317	327	311
75°	173	171	165	151	146	183
85°	39	39	40	40	40	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	820.5	820.5	820.5	820.5	820.5
2.5°	820.5	819.7	818.9	820.5	822.1
5°	816.5	815.7	815.7	818.1	819.7
7.5°	811.6	810.8	810.8	813.2	815.7
10°	804.4	804.4	804.4	806.8	809.2
12.5°	796.3	795.5	796.3	798.7	801.1
15°	786.6	785.8	786.6	789.8	792.2
17.5°	775.2	773.6	774.4	778.5	781.7
20°	762.3	761.5	762.3	766.4	770.4
22.5°	747.8	747.0	747.0	751.8	756.7
25°	730.8	730.8	732.4	736.4	742.1
27.5°	715.4	713.8	715.4	720.3	725.1
30°	697.6	696.0	696.0	702.5	707.3
32.5°	678.2	675.8	677.4	682.3	688.8
35°	656.4	654.8	655.6	661.3	666.9
37.5°	633.8	633.0	633.8	639.4	646.7
40°	611.1	609.5	610.3	616.8	623.3
42.5°	586.9	586.1	585.3	591.7	599.8
45°	561.0	560.2	559.4	565.9	572.3
47.5°	534.3	532.7	531.9	538.4	547.3
50°	505.2	505.2	504.4	509.3	517.4
52.5°	477.0	475.3	473.7	479.4	488.3
55°	446.2	444.6	443.0	449.5	457.6
57.5°	414.7	413.1	411.5	416.3	426.0
60°	382.4	380.8	376.7	384.8	396.1
62.5°	349.2	346.0	344.4	351.7	360.5
65°	313.7	311.2	308.0	316.9	327.4
67.5°	279.7	275.7	274.0	280.5	287.8
70°	244.9	241.7	239.3	240.1	241.7
72.5°	208.6	206.9	204.5	197.2	195.6
75°	173.0	170.6	164.9	151.2	146.3
77.5°	139.0	137.4	126.1	114.8	116.4
80°	104.3	102.7	90.5	93.0	97.0
82.5°	72.8	68.7	67.1	66.3	68.7
85°	38.8	38.8	39.6	39.6	40.4
87.5°	16.2	16.2	17.8	17.8	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)