

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: P184443

Luminaire Tested: **612EN-LD2-70-UNV-L840-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184443
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34470)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: 612EN-LD2-70-UNV-L840-CD1-U
Description: METALUX ENCOUNTER 600X1200 TROFFER

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6884.4 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

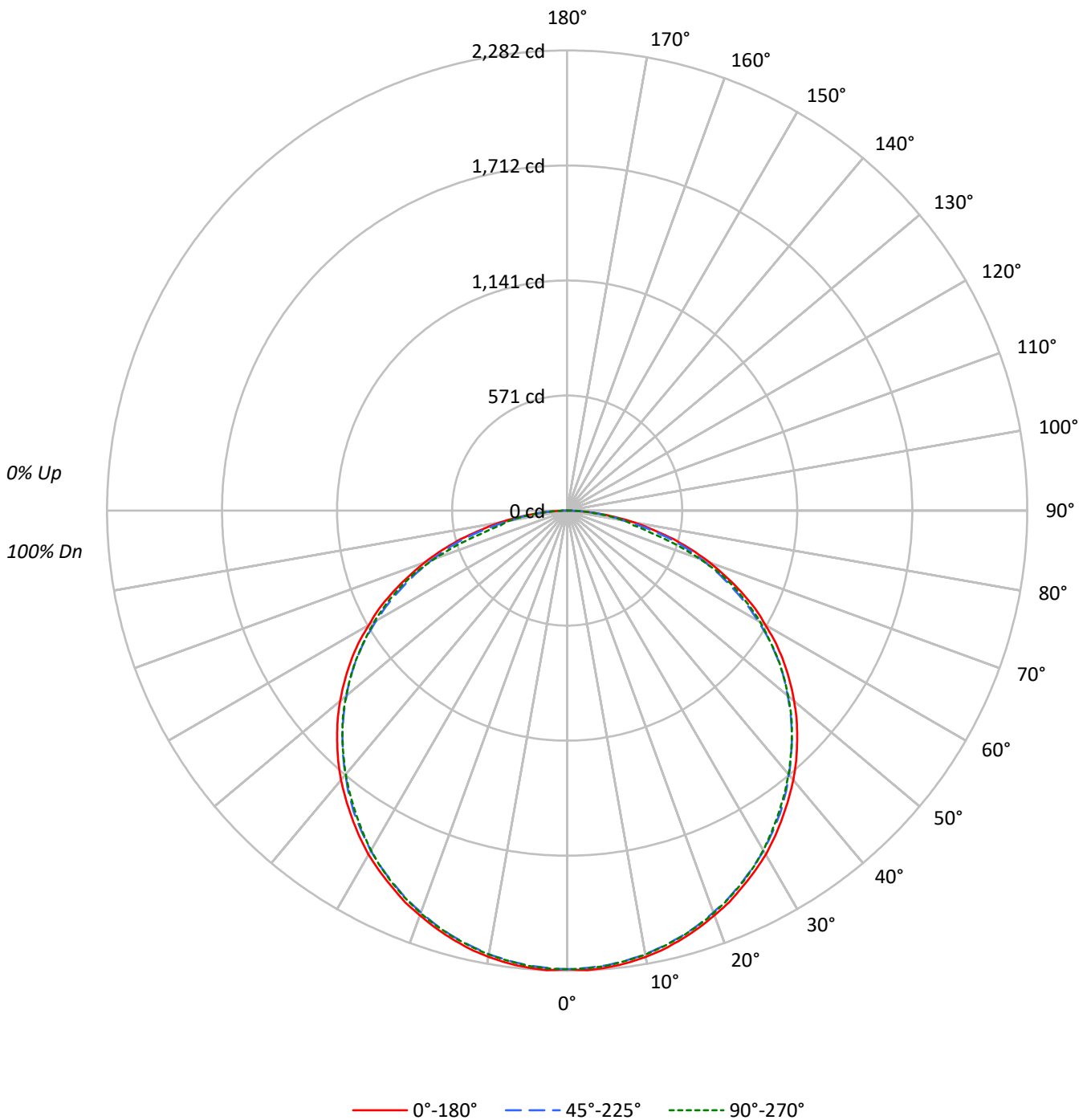
Input Watts (W): 60.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	54	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3061	3061	3061
5°	3072	3057	3060
10°	3071	3052	3055
15°	3064	3045	3048
20°	3058	3036	3042
25°	3056	3029	3033
30°	3061	3025	3022
35°	3056	3019	3004
40°	3064	3005	3000
45°	3069	3000	3000
50°	3076	2990	2995
55°	3079	2983	2988
60°	3055	2938	2975
65°	3027	2875	2940
70°	2953	2801	2747
75°	2826	2673	2270
80°	2609	2186	2273
85°	2177	2072	1967



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.2	3.1
10°-20°	617.8	9.0
20°-30°	942.5	13.7
30°-40°	1151.4	16.7
40°-50°	1222.9	17.8
50°-60°	1143.4	16.6
60°-70°	907.9	13.2
70°-80°	529.7	7.7
80°-90°	153.6	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°	1775.5	25.8
0°-40°	2926.8	42.5
0°-60°	5293.1	76.9
0°-90°	6884.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6884.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2275	2275	2275	2275	2275	
5°	2275	2266	2263	2259	2266	216
15°	2200	2193	2186	2179	2188	621
25°	2059	2047	2040	2036	2043	950
35°	1861	1849	1838	1824	1829	1166
45°	1613	1599	1576	1570	1576	1245
55°	1312	1299	1272	1265	1274	1171
65°	951	928	903	912	924	939
75°	544	523	514	457	437	572
85°	141	134	134	132	127	163
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2274.7	2274.7	2274.7	2274.7	2274.7
2.5°	2281.5	2272.4	2270.2	2265.6	2272.4
5°	2274.7	2265.6	2263.4	2258.8	2265.6
7.5°	2263.4	2254.3	2249.7	2245.2	2252.0
10°	2247.4	2238.3	2233.8	2229.2	2236.1
12.5°	2227.0	2215.6	2211.0	2206.5	2213.3
15°	2199.7	2192.8	2186.0	2179.2	2188.3
17.5°	2170.1	2161.0	2156.4	2151.9	2158.7
20°	2136.0	2129.1	2120.0	2117.8	2124.6
22.5°	2101.8	2088.2	2083.6	2076.8	2085.9
25°	2058.6	2047.3	2040.4	2035.9	2042.7
27.5°	2015.4	2004.0	1994.9	1990.4	1997.2
30°	1969.9	1956.3	1947.2	1938.1	1944.9
32.5°	1917.6	1903.9	1892.6	1883.5	1888.0
35°	1860.7	1849.4	1838.0	1824.3	1828.9
37.5°	1803.9	1792.5	1776.6	1765.2	1769.7
40°	1744.7	1733.3	1710.6	1703.8	1708.3
42.5°	1681.0	1667.4	1644.6	1637.8	1642.4
45°	1612.8	1599.1	1576.4	1569.6	1576.4
47.5°	1544.5	1528.6	1503.6	1499.0	1508.1
50°	1469.5	1453.5	1428.5	1426.3	1430.8
52.5°	1392.1	1373.9	1353.5	1346.6	1353.5
55°	1312.5	1298.9	1271.6	1264.7	1273.8
57.5°	1228.4	1207.9	1185.1	1178.3	1187.4
60°	1135.1	1116.9	1091.9	1089.6	1105.5
62.5°	1050.9	1025.9	1000.9	998.6	1016.8
65°	950.8	928.1	903.1	912.2	923.5
67.5°	848.5	830.3	807.5	814.4	825.7
70°	750.7	727.9	712.0	707.4	698.3
72.5°	648.3	630.1	621.0	584.6	573.2
75°	543.7	523.2	514.1	457.2	436.7
77.5°	434.5	425.4	402.6	345.8	338.9
80°	336.7	332.1	282.1	286.6	293.4
82.5°	234.3	232.0	216.1	211.5	209.3
85°	141.0	134.2	134.2	131.9	127.4
87.5°	56.9	61.4	59.1	56.9	59.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)