

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: P184414

Luminaire Tested: **612EN-LD2-40-UNV-L850-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184414
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-LD2-40-UNV-L850-CD1-U
Description: METALUX ENCOUNTER 600X1200 TROFFER

Light Source: EATON LED 5000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

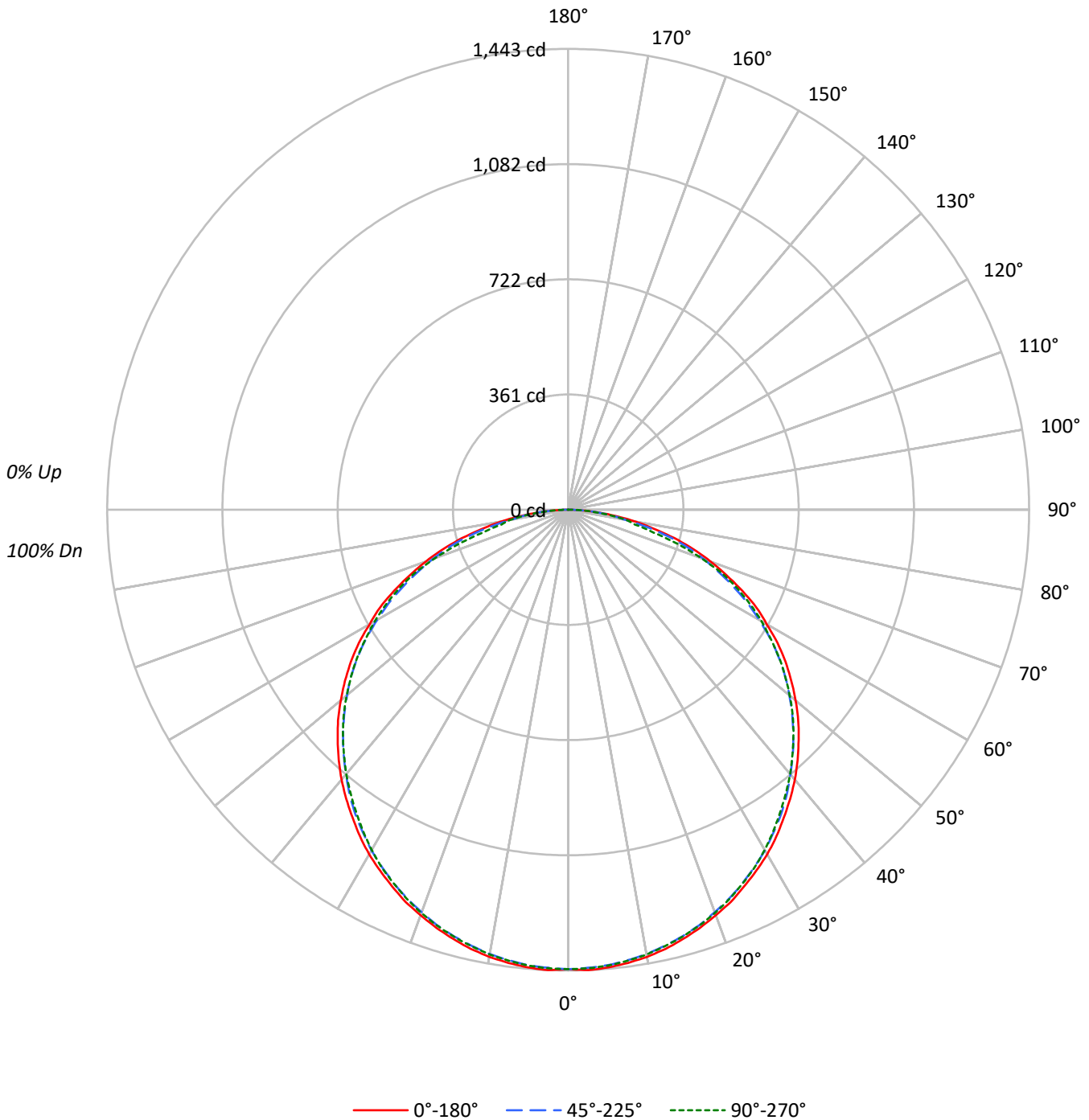
Lumens per Lamp: N/A
Luminaire Lumens: 4354.5 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.9
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	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°	1936	1936	1936
5°	1943	1934	1935
10°	1942	1930	1932
15°	1938	1926	1928
20°	1934	1920	1924
25°	1933	1916	1918
30°	1936	1913	1911
35°	1933	1910	1900
40°	1938	1900	1898
45°	1941	1897	1897
50°	1946	1891	1894
55°	1947	1887	1890
60°	1932	1858	1882
65°	1915	1819	1860
70°	1868	1771	1738
75°	1788	1691	1436
80°	1650	1382	1438
85°	1377	1311	1244



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.1	3.1
10°-20°	390.7	9.0
20°-30°	596.1	13.7
30°-40°	728.3	16.7
40°-50°	773.5	17.8
50°-60°	723.2	16.6
60°-70°	574.3	13.2
70°-80°	335.0	7.7
80°-90°	97.2	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°	1123.0	25.8
0°-40°	1851.3	42.5
0°-60°	3348.0	76.9
0°-90°	4354.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4354.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1439	1439	1439	1439	1439	
5°	1439	1433	1432	1429	1433	137
15°	1391	1387	1383	1378	1384	393
25°	1302	1295	1291	1288	1292	601
35°	1177	1170	1163	1154	1157	737
45°	1020	1012	997	993	997	787
55°	830	822	804	800	806	741
65°	601	587	571	577	584	594
75°	344	331	325	289	276	362
85°	89	85	85	84	81	103
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1438.8	1438.8	1438.8	1438.8	1438.8
2.5°	1443.1	1437.4	1435.9	1433.0	1437.4
5°	1438.8	1433.0	1431.6	1428.7	1433.0
7.5°	1431.6	1425.9	1423.0	1420.1	1424.4
10°	1421.5	1415.8	1412.9	1410.0	1414.3
12.5°	1408.6	1401.4	1398.5	1395.6	1400.0
15°	1391.3	1387.0	1382.7	1378.4	1384.1
17.5°	1372.6	1366.9	1364.0	1361.1	1365.4
20°	1351.0	1346.7	1341.0	1339.5	1343.8
22.5°	1329.5	1320.8	1317.9	1313.6	1319.4
25°	1302.1	1294.9	1290.6	1287.7	1292.0
27.5°	1274.8	1267.6	1261.8	1259.0	1263.3
30°	1246.0	1237.4	1231.6	1225.9	1230.2
32.5°	1212.9	1204.3	1197.1	1191.3	1194.2
35°	1176.9	1169.7	1162.6	1153.9	1156.8
37.5°	1141.0	1133.8	1123.7	1116.5	1119.4
40°	1103.6	1096.4	1082.0	1077.7	1080.5
42.5°	1063.3	1054.6	1040.3	1035.9	1038.8
45°	1020.1	1011.5	997.1	992.8	997.1
47.5°	976.9	966.9	951.0	948.2	953.9
50°	929.5	919.4	903.6	902.1	905.0
52.5°	880.5	869.0	856.1	851.8	856.1
55°	830.2	821.6	804.3	800.0	805.7
57.5°	777.0	764.0	749.6	745.3	751.1
60°	718.0	706.5	690.6	689.2	699.3
62.5°	664.7	648.9	633.1	631.6	643.1
65°	601.4	587.0	571.2	577.0	584.2
67.5°	536.7	525.2	510.8	515.1	522.3
70°	474.8	460.4	450.3	447.5	441.7
72.5°	410.1	398.5	392.8	369.8	362.6
75°	343.9	330.9	325.2	289.2	276.3
77.5°	274.8	269.1	254.7	218.7	214.4
80°	212.9	210.1	178.4	181.3	185.6
82.5°	148.2	146.8	136.7	133.8	132.4
85°	89.2	84.9	84.9	83.5	80.6
87.5°	36.0	38.8	37.4	36.0	37.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)