

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: METALUX

Report Number: P393622

Luminaire Tested: **24EN-LD2-58-UNV-L92765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-37)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-58-UNV-L92765-W2A-1-U (4500K)
Description: 2X4 ENCOUNTER, 5800 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4770.0 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

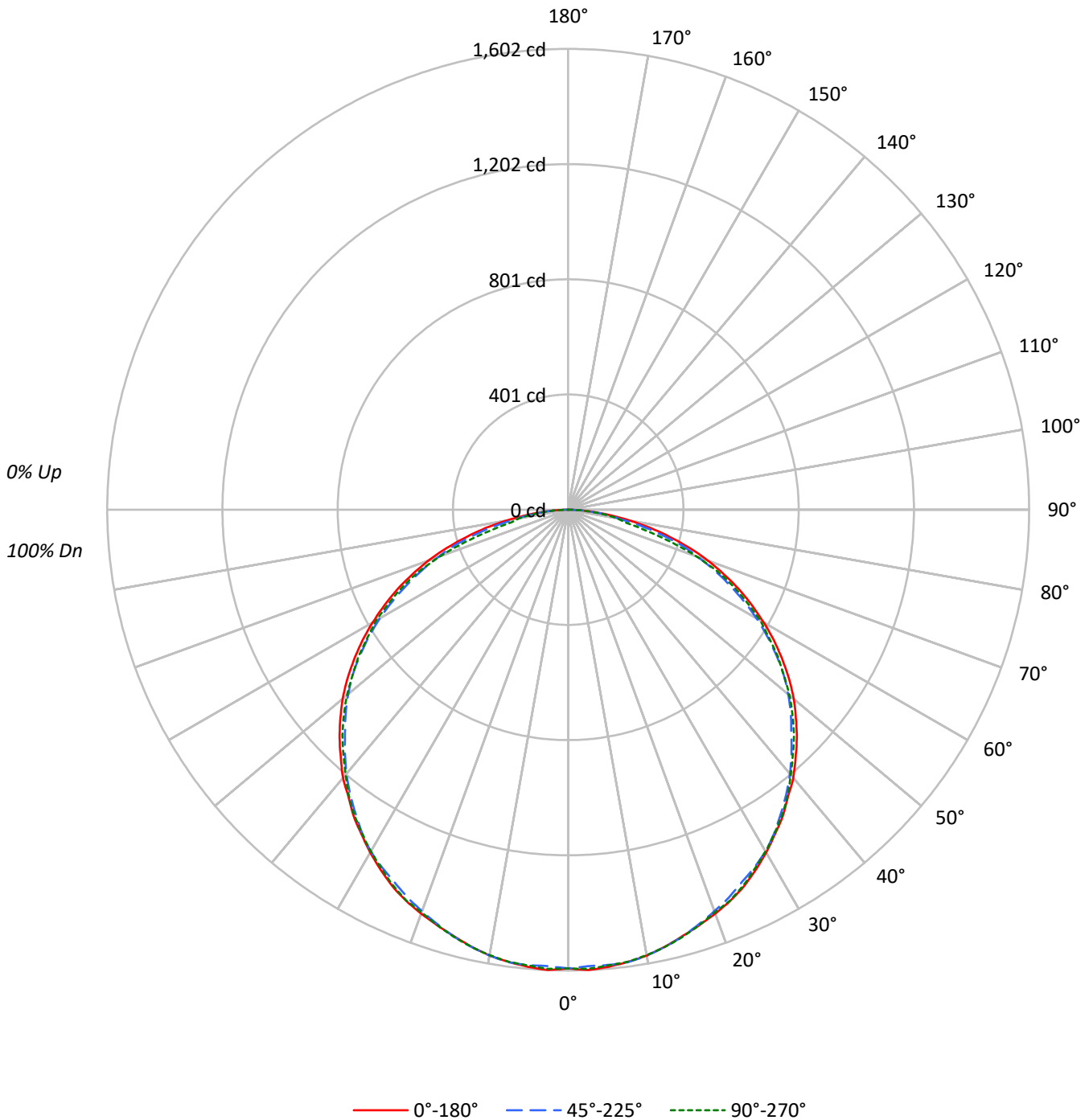
Input Watts (W): 41.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2145	2145	2145
5°	2155	2146	2148
10°	2150	2150	2148
15°	2137	2140	2141
20°	2140	2127	2133
25°	2145	2121	2139
30°	2138	2131	2131
35°	2136	2117	2129
40°	2138	2107	2114
45°	2138	2087	2112
50°	2143	2089	2101
55°	2131	2073	2085
60°	2111	2034	2074
65°	2084	1967	2022
70°	2030	1891	1862
75°	1901	1747	1452
80°	1681	1382	1350
85°	1294	1255	1141



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	3.2
10°-20°	433.5	9.1
20°-30°	662.1	13.9
30°-40°	808.1	16.9
40°-50°	854.5	17.9
50°-60°	794.8	16.7
60°-70°	623.3	13.1
70°-80°	349.6	7.3
80°-90°	92.9	1.9
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°	1246.7	26.1
0°-40°	2054.9	43.1
0°-60°	3704.2	77.7
0°-90°	4770.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4770.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1594	1594	1594	1594	1594	
5°	1595	1589	1589	1584	1590	152
15°	1534	1536	1536	1532	1537	434
25°	1445	1436	1429	1437	1441	665
35°	1300	1296	1289	1282	1296	813
45°	1124	1112	1097	1104	1110	867
55°	909	898	884	881	889	812
65°	655	638	618	624	635	646
75°	366	352	336	298	279	387
85°	84	80	81	76	74	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1594.5	1594.5	1594.5	1594.5	1594.5
2.5°	1601.9	1591.2	1587.9	1591.2	1597.8
5°	1595.3	1588.8	1588.8	1583.8	1590.4
7.5°	1585.5	1583.0	1587.1	1574.0	1584.7
10°	1574.0	1569.9	1574.0	1560.0	1572.3
12.5°	1555.9	1555.1	1556.7	1549.3	1556.7
15°	1534.5	1536.2	1536.2	1532.1	1537.0
17.5°	1514.8	1515.7	1510.7	1515.7	1514.0
20°	1494.3	1492.6	1485.3	1494.3	1489.4
22.5°	1472.1	1467.2	1459.0	1468.0	1470.5
25°	1445.0	1436.0	1428.6	1436.8	1440.9
27.5°	1411.3	1402.3	1401.5	1401.5	1405.6
30°	1376.0	1369.4	1371.9	1365.3	1371.9
32.5°	1337.4	1334.9	1333.3	1324.2	1334.1
35°	1300.4	1296.3	1288.9	1281.5	1296.3
37.5°	1255.2	1252.8	1245.4	1241.3	1252.8
40°	1217.4	1207.6	1199.4	1196.9	1203.5
42.5°	1169.8	1158.3	1148.4	1152.6	1155.8
45°	1123.8	1112.3	1096.7	1104.1	1109.8
47.5°	1073.7	1061.4	1049.0	1054.0	1057.3
50°	1023.6	1008.0	998.1	997.3	1003.9
52.5°	967.7	954.6	944.7	941.4	943.9
55°	908.6	897.9	883.9	880.6	888.9
57.5°	848.6	837.1	820.7	818.2	826.4
60°	784.5	773.0	755.8	755.8	770.6
62.5°	720.4	707.3	687.6	691.7	702.4
65°	654.7	637.5	617.8	624.3	635.0
67.5°	585.7	569.3	549.6	555.3	561.9
70°	515.9	497.8	480.6	475.6	473.2
72.5°	442.8	423.9	414.9	391.0	376.2
75°	365.6	352.4	336.0	298.2	279.3
77.5°	294.1	282.6	257.9	212.8	202.1
80°	216.9	216.1	178.3	173.3	174.2
82.5°	147.0	143.8	133.9	124.9	125.7
85°	83.8	80.5	81.3	75.6	73.9
87.5°	30.4	32.9	32.0	32.9	32.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)