

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: P219056

Luminaire Tested: **24GR-LD5-38-F1-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219056
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35585)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-38-F1-UNV-L940-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3393.4 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

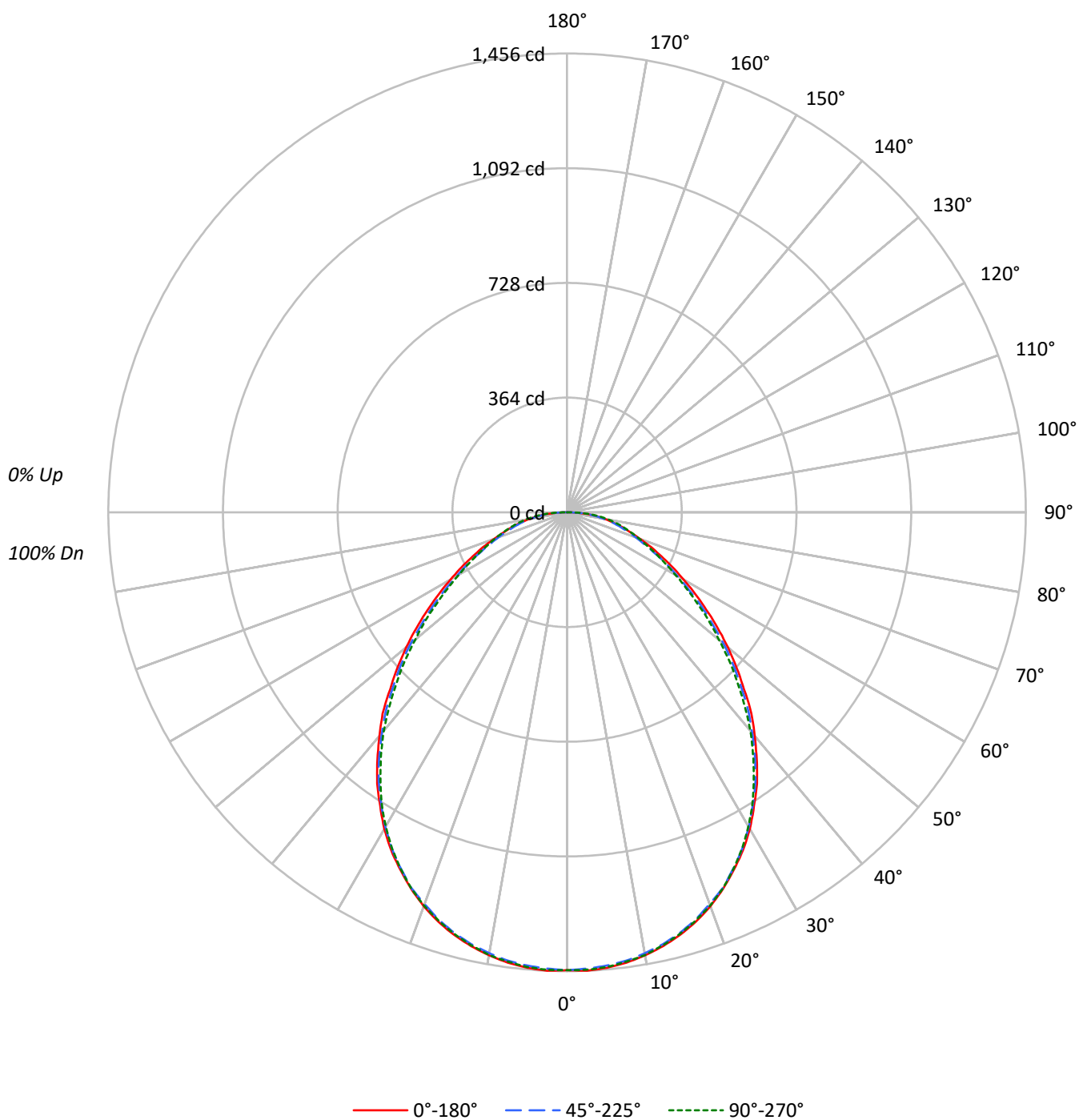
Input Watts (W): 30.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	103	99	96		98	95	93		94	92	90		91	89	87
2	100	92	86	80	98	90	85	80		87	82	78		84	80	76		81	77	74
3	92	82	74	68	89	80	73	67		77	71	66		75	69	65		72	68	64
4	85	73	65	58	82	72	64	58		69	63	57		67	61	57		65	60	56
5	78	66	57	51	76	65	57	51		63	56	50		61	55	50		59	54	49
6	72	60	51	45	71	59	51	45		57	50	44		55	49	44		54	48	44
7	67	54	46	40	66	54	46	40		52	45	40		51	44	39		49	44	39
8	63	50	42	36	61	49	41	36		48	41	36		47	40	36		46	40	35
9	59	46	38	33	58	45	38	33		44	37	32		43	37	32		42	36	32
10	55	43	35	30	54	42	35	30		41	34	30		40	34	29		39	33	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2225	2225	2225
5°	2231	2220	2227
10°	2220	2210	2218
15°	2201	2191	2196
20°	2168	2156	2164
25°	2116	2109	2110
30°	2051	2039	2036
35°	1964	1948	1931
40°	1851	1827	1810
45°	1720	1690	1658
50°	1586	1545	1498
55°	1442	1391	1348
60°	1306	1237	1215
65°	1195	1115	1122
70°	1099	1036	1085
75°	1068	1013	1105
80°	1070	1043	1177
85°	1177	1112	1297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.3	4.0
10°-20°	389.6	11.5
20°-30°	574.1	16.9
30°-40°	649.2	19.1
40°-50°	602.2	17.7
50°-60°	467.8	13.8
60°-70°	313.7	9.2
70°-80°	188.0	5.5
80°-90°	71.5	2.1
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°	1100.9	32.4
0°-40°	1750.1	51.6
0°-60°	2820.1	83.1
0°-90°	3393.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3393.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1453	1453	1453	1453	1453	
5°	1451	1447	1444	1443	1448	138
15°	1388	1382	1382	1379	1385	391
25°	1252	1250	1248	1246	1249	576
35°	1051	1046	1042	1036	1033	655
45°	794	791	780	768	765	614
55°	540	534	521	508	505	485
65°	330	319	308	307	310	329
75°	180	174	171	180	187	191
85°	67	63	63	74	74	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1452.9	1452.9	1452.9	1452.9	1452.9
2.5°	1456.0	1451.3	1449.2	1448.2	1452.9
5°	1450.8	1446.6	1444.0	1442.9	1448.2
7.5°	1441.4	1436.6	1435.1	1433.0	1438.3
10°	1427.3	1423.0	1421.0	1419.4	1426.2
12.5°	1409.5	1405.8	1403.7	1402.7	1406.9
15°	1388.0	1382.3	1381.8	1379.1	1384.9
17.5°	1361.3	1356.1	1355.0	1354.0	1357.7
20°	1330.4	1325.3	1322.6	1322.1	1327.8
22.5°	1293.4	1289.7	1290.7	1287.6	1291.7
25°	1252.0	1250.4	1247.8	1245.7	1248.8
27.5°	1209.1	1203.8	1203.8	1199.7	1202.8
30°	1159.9	1156.3	1153.1	1148.9	1151.0
32.5°	1104.4	1102.9	1098.1	1094.0	1095.0
35°	1050.6	1046.4	1042.1	1035.9	1032.8
37.5°	988.8	984.6	979.4	970.5	969.5
40°	926.0	922.4	914.0	904.5	905.2
42.5°	866.4	860.6	850.2	837.6	835.0
45°	794.2	791.0	780.1	768.1	765.4
47.5°	729.9	727.7	714.1	701.6	698.5
50°	665.5	659.7	648.3	635.6	628.8
52.5°	602.2	594.9	580.2	571.8	568.7
55°	539.9	533.6	521.1	508.0	504.9
57.5°	481.9	475.1	459.8	450.5	448.9
60°	426.4	420.1	403.9	397.1	396.5
62.5°	377.2	366.8	355.8	351.1	351.6
65°	329.6	319.1	307.6	306.6	309.7
67.5°	287.8	276.7	265.2	269.4	272.6
70°	245.4	237.5	231.3	238.0	242.3
72.5°	209.2	204.6	198.8	208.2	213.5
75°	180.5	174.2	171.1	179.5	186.8
77.5°	149.6	144.4	144.4	153.3	161.2
80°	121.3	117.7	118.2	128.7	133.4
82.5°	95.2	90.0	90.5	103.6	106.7
85°	67.0	62.8	63.3	74.3	73.8
87.5°	35.1	33.5	35.1	42.9	40.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)