

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: P219221

Luminaire Tested: **24GR-LD5-38-A19/156-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219221
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-38-A19/156-UNV-L935-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A19/156 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3209.9 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

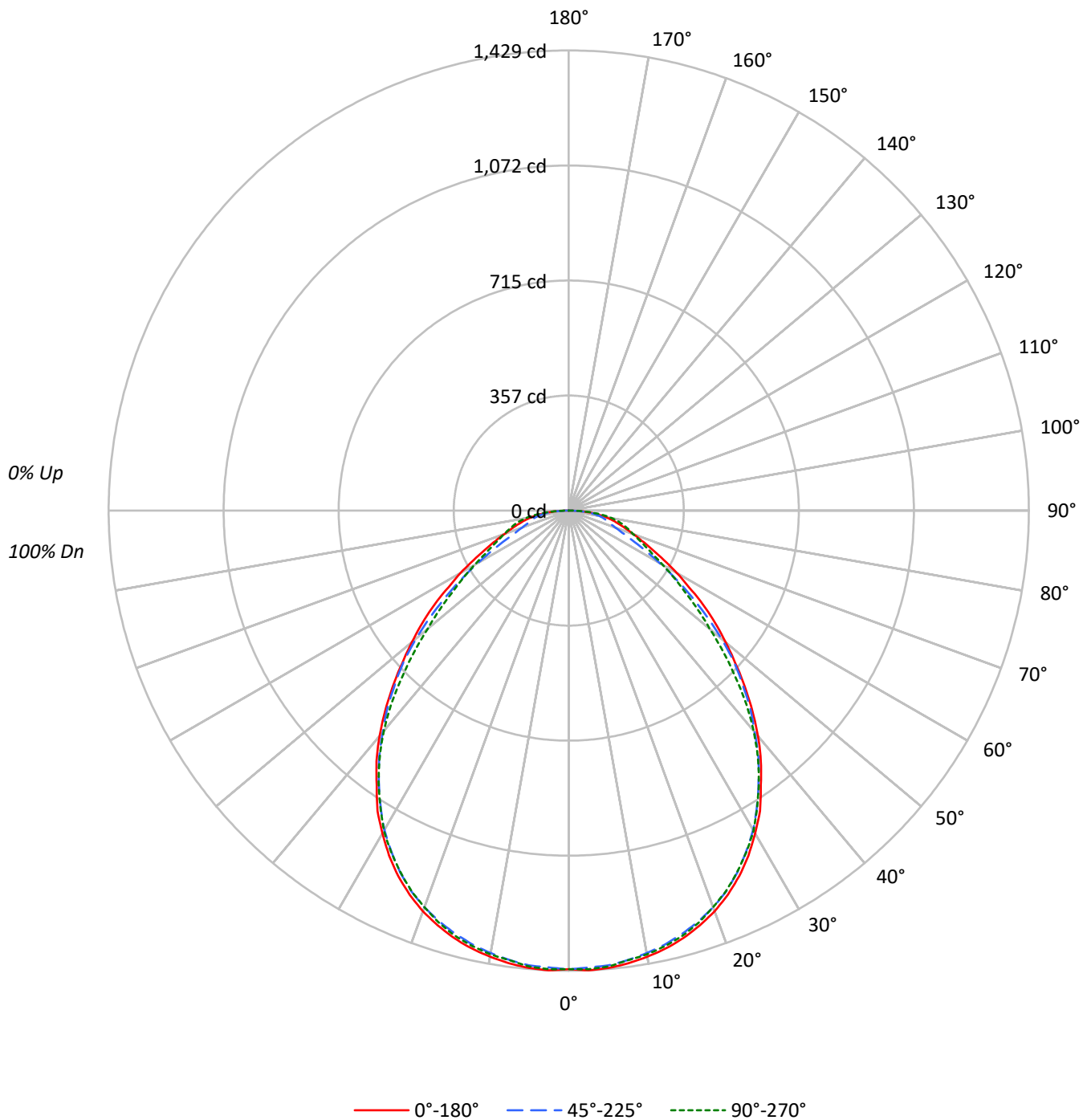
Input Watts (W): 30.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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	110	105	101	98	107	103	99	96		99	96	93		95	93	90		91	89	88
2	101	93	87	82	98	91	86	81		88	83	79		85	81	77		82	78	75
3	93	83	75	69	90	81	74	69		79	73	68		76	71	67		73	69	65
4	86	74	66	60	83	73	65	60		71	64	59		68	63	58		66	61	57
5	79	67	59	53	77	66	58	52		64	57	52		62	56	51		60	55	51
6	73	61	53	46	72	60	52	46		58	51	46		57	50	45		55	49	45
7	68	56	47	42	67	55	47	41		53	46	41		52	46	41		51	45	41
8	64	51	43	37	62	50	43	37		49	42	37		48	41	37		47	41	37
9	60	47	39	34	58	46	39	34		45	38	34		44	38	33		43	38	33
10	56	44	36	31	55	43	36	31		42	35	31		41	35	31		40	35	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2181	2181	2181
5°	2192	2180	2185
10°	2188	2170	2176
15°	2180	2158	2167
20°	2159	2137	2136
25°	2117	2094	2093
30°	2047	2026	2030
35°	1944	1922	1925
40°	1828	1796	1786
45°	1676	1653	1588
50°	1515	1474	1362
55°	1360	1238	1175
60°	1191	996	1033
65°	1039	784	951
70°	950	684	950
75°	950	728	1048
80°	1032	857	1194
85°	1132	968	1281



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.9	4.2
10°-20°	384.9	12.0
20°-30°	570.7	17.8
30°-40°	643.8	20.1
40°-50°	583.1	18.2
50°-60°	420.7	13.1
60°-70°	251.2	7.8
70°-80°	155.3	4.8
80°-90°	65.4	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°	1090.4	34.0
0°-40°	1734.3	54.0
0°-60°	2738.0	85.3
0°-90°	3209.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3209.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1424	1424	1424	1424	1424	
5°	1426	1424	1418	1416	1421	135
15°	1375	1366	1361	1361	1367	387
25°	1253	1246	1239	1235	1238	575
35°	1040	1038	1028	1028	1029	651
45°	774	769	763	744	733	596
55°	509	493	464	441	440	455
65°	287	252	216	246	262	288
75°	161	139	123	153	177	172
85°	64	56	55	72	73	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1424.2	1424.2	1424.2	1424.2	1424.2
2.5°	1429.1	1425.2	1420.2	1423.2	1425.7
5°	1425.7	1423.7	1417.7	1416.3	1421.2
7.5°	1418.2	1413.3	1407.8	1410.3	1408.3
10°	1406.8	1402.3	1395.4	1395.9	1399.4
12.5°	1392.9	1387.5	1380.1	1382.0	1385.0
15°	1374.6	1366.1	1360.7	1361.2	1366.6
17.5°	1351.2	1344.9	1337.9	1339.3	1341.9
20°	1324.5	1321.1	1311.1	1308.1	1310.6
22.5°	1290.8	1284.4	1278.9	1277.4	1277.9
25°	1252.6	1245.7	1239.2	1234.7	1238.2
27.5°	1207.9	1202.0	1193.6	1192.1	1195.1
30°	1157.4	1152.9	1145.5	1143.5	1148.0
32.5°	1105.8	1098.4	1088.0	1088.0	1088.9
35°	1039.9	1038.4	1028.0	1028.5	1029.4
37.5°	980.4	973.4	967.5	961.5	964.5
40°	914.4	906.4	898.5	894.5	893.1
42.5°	843.5	837.5	834.1	819.7	816.3
45°	773.6	768.7	763.1	744.3	733.0
47.5°	702.2	701.2	696.7	663.5	652.1
50°	635.7	634.3	618.4	583.2	571.8
52.5°	572.7	562.8	542.0	507.3	505.3
55°	509.2	493.4	463.7	440.8	439.9
57.5°	442.3	423.5	393.2	380.8	387.3
60°	388.8	360.0	325.3	326.8	337.2
62.5°	333.2	301.0	266.8	281.7	294.1
65°	286.6	252.4	216.2	245.5	262.3
67.5°	246.0	214.2	179.5	218.7	235.0
70°	212.2	186.5	152.7	193.9	212.2
72.5°	185.5	161.7	135.4	174.1	195.4
75°	160.6	139.3	123.0	153.3	177.1
77.5°	139.3	118.5	111.1	135.4	158.7
80°	117.0	98.2	97.2	118.0	135.4
82.5°	91.2	78.4	78.4	98.7	109.1
85°	64.4	56.5	55.1	71.9	72.9
87.5°	33.2	31.7	28.7	37.7	37.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)