

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: P293464

Luminaire Tested: **24GR-LD5-30-A-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293464  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-30-A-UNV-L82765-W2A1-U-5500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3207.0 lumens  
Efficiency: N/A  
Efficacy: 156.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

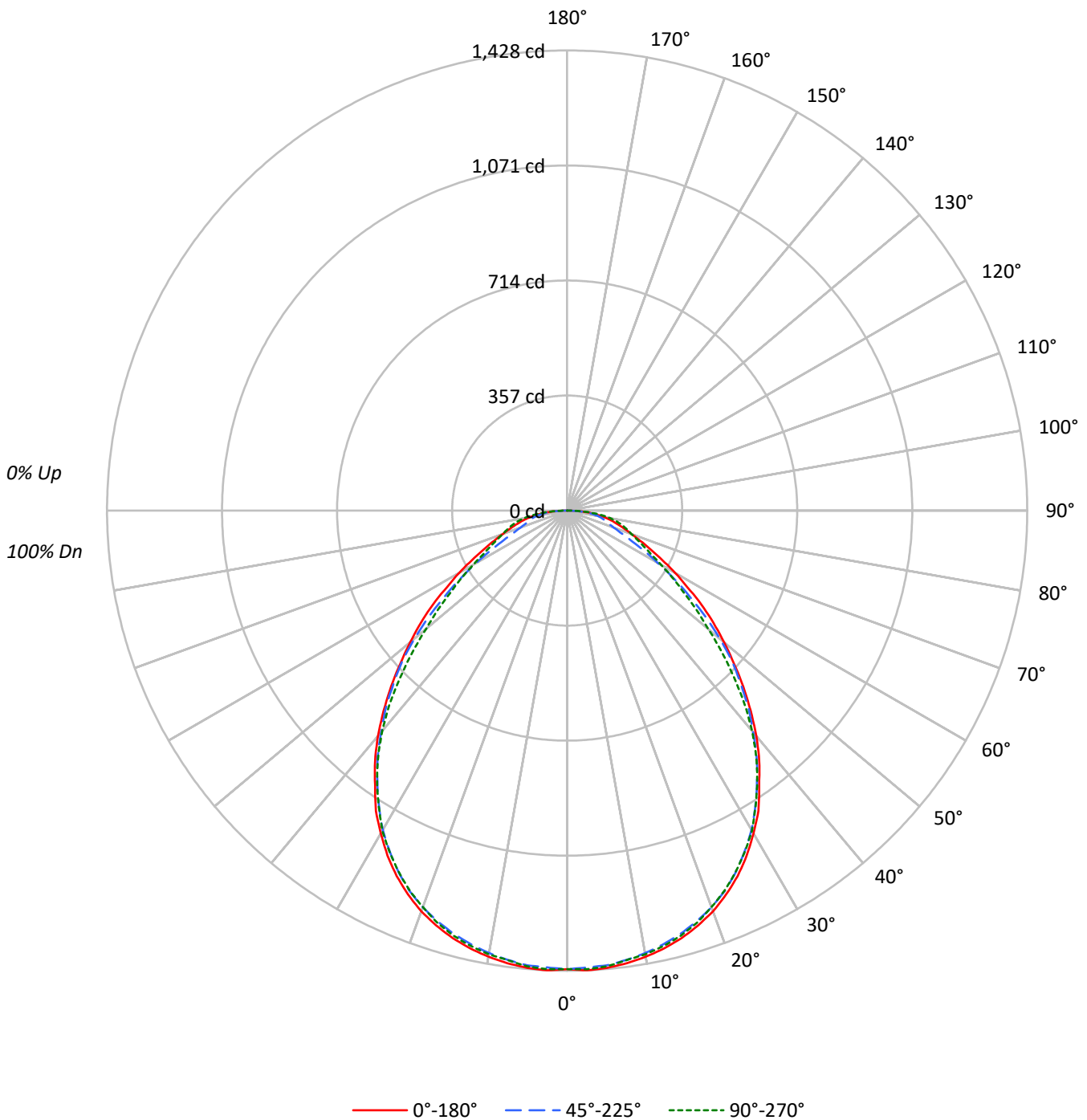
Input Watts (W): 20.553  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1914	1914	1914
5°	1924	1913	1918
10°	1920	1905	1910
15°	1913	1894	1902
20°	1895	1876	1875
25°	1858	1838	1837
30°	1797	1778	1782
35°	1706	1687	1689
40°	1605	1577	1567
45°	1471	1451	1393
50°	1330	1293	1196
55°	1194	1087	1031
60°	1045	875	907
65°	912	688	834
70°	834	600	834
75°	834	639	920
80°	906	752	1048
85°	994	849	1124



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.7	4.2
10°-20°	384.5	12.0
20°-30°	570.2	17.8
30°-40°	643.2	20.1
40°-50°	582.6	18.2
50°-60°	420.3	13.1
60°-70°	250.9	7.8
70°-80°	155.1	4.8
80°-90°	65.3	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°	1089.5	34.0
0°-40°	1732.7	54.0
0°-60°	2735.6	85.3
0°-90°	3207.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3207.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1423	1423	1423	1423	1423	
5°	1424	1422	1416	1415	1420	135
15°	1373	1365	1360	1360	1365	387
25°	1252	1244	1238	1234	1237	575
35°	1039	1038	1027	1028	1028	650
45°	773	768	762	744	732	596
55°	509	493	463	440	440	454
65°	286	252	216	245	262	288
75°	160	139	123	153	177	171
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°	1422.9	1422.9	1422.9	1422.9	1422.9
2.5°	1427.9	1423.9	1418.9	1421.9	1424.4
5°	1424.4	1422.4	1416.5	1415.0	1419.9
7.5°	1417.0	1412.0	1406.6	1409.0	1407.1
10°	1405.6	1401.1	1394.2	1394.7	1398.1
12.5°	1391.7	1386.2	1378.8	1380.8	1383.8
15°	1373.4	1364.9	1359.5	1360.0	1365.4
17.5°	1350.1	1343.6	1336.7	1338.2	1340.7
20°	1323.3	1319.9	1309.9	1307.0	1309.5
22.5°	1289.6	1283.2	1277.7	1276.3	1276.8
25°	1251.5	1244.5	1238.1	1233.6	1237.1
27.5°	1206.9	1201.0	1192.5	1191.0	1194.0
30°	1156.4	1151.9	1144.5	1142.5	1146.9
32.5°	1104.8	1097.4	1087.0	1087.0	1088.0
35°	1038.9	1037.5	1027.1	1027.5	1028.5
37.5°	979.5	972.6	966.6	960.7	963.6
40°	913.6	905.7	897.7	893.8	892.3
42.5°	842.7	836.8	833.3	819.0	815.5
45°	772.9	767.9	762.5	743.7	732.3
47.5°	701.5	700.6	696.1	662.9	651.5
50°	635.2	633.7	617.8	582.6	571.2
52.5°	572.2	562.3	541.5	506.8	504.9
55°	508.8	493.0	463.2	440.4	439.5
57.5°	441.9	423.1	392.9	380.5	386.9
60°	388.4	359.7	325.0	326.5	336.9
62.5°	332.9	300.7	266.5	281.4	293.8
65°	286.4	252.2	216.0	245.2	262.1
67.5°	245.7	214.0	179.3	218.5	234.8
70°	212.0	186.3	152.6	193.7	212.0
72.5°	185.3	161.5	135.3	173.9	195.2
75°	160.5	139.2	122.9	153.1	176.9
77.5°	139.2	118.4	111.0	135.3	158.5
80°	116.9	98.1	97.1	117.9	135.3
82.5°	91.2	78.3	78.3	98.6	109.0
85°	64.4	56.5	55.0	71.8	72.8
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)