

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: P292969

Luminaire Tested: **24GR-LD5-34-F1-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292969
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-34-F1-UNV-L82765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3630.0 lumens
Efficiency: N/A
Efficacy: 153.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

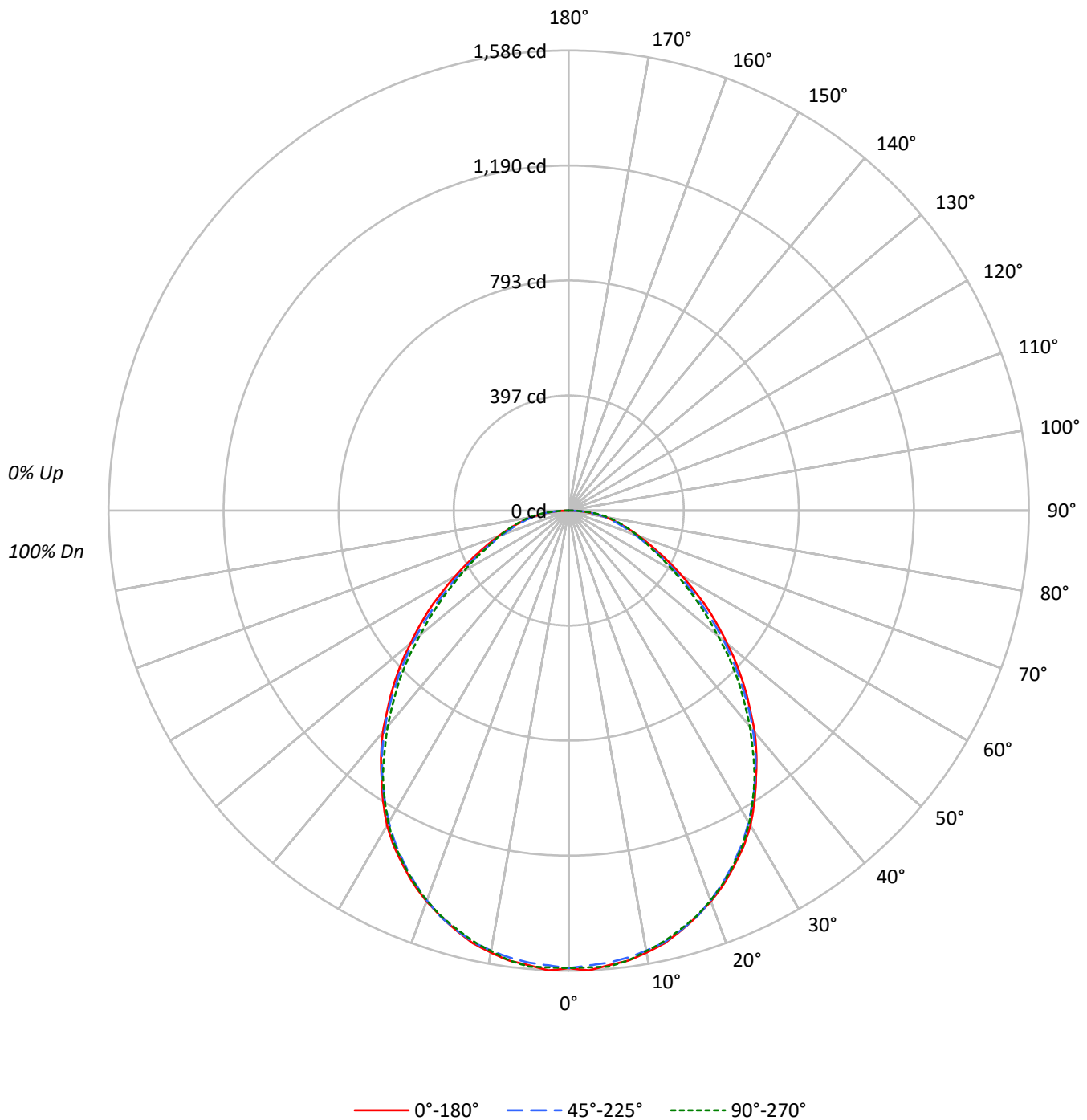
Input Watts (W): 23.622
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96		98	95	93		95	92	90		91	89	87
2	100	93	86	81	98	91	85	80		87	82	78		84	80	76		81	78	75
3	92	82	74	68	90	81	73	68		78	72	67		75	70	65		72	68	64
4	85	73	65	59	83	72	64	58		70	63	58		67	62	57		65	60	56
5	78	66	58	51	76	65	57	51		63	56	50		61	55	50		59	54	49
6	73	60	51	45	71	59	51	45		57	50	45		56	49	44		54	48	44
7	68	55	46	40	66	54	46	40		52	45	40		51	44	40		50	44	39
8	63	50	42	36	62	49	42	36		48	41	36		47	40	36		46	40	36
9	59	46	38	33	58	46	38	33		44	38	33		43	37	32		42	37	32
10	56	43	35	30	54	42	35	30		41	34	30		40	34	30		39	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2122	2122	2122
5°	2125	2113	2131
10°	2113	2104	2106
15°	2087	2085	2080
20°	2052	2048	2048
25°	2004	1993	1997
30°	1946	1926	1932
35°	1848	1840	1835
40°	1750	1735	1704
45°	1627	1599	1567
50°	1490	1458	1403
55°	1361	1300	1256
60°	1213	1154	1124
65°	1092	1034	1020
70°	1013	951	990
75°	969	926	1004
80°	969	969	1073
85°	1005	1017	1133



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.9	4.1
10°-20°	421.4	11.6
20°-30°	618.5	17.0
30°-40°	699.2	19.3
40°-50°	646.2	17.8
50°-60°	497.9	13.7
60°-70°	329.7	9.1
70°-80°	196.2	5.4
80°-90°	71.9	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°	1188.8	32.7
0°-40°	1888.0	52.0
0°-60°	3032.1	83.5
0°-90°	3630.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3630.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1577	1577	1577	1577	1577	
5°	1573	1573	1564	1565	1578	149
15°	1498	1495	1497	1496	1493	422
25°	1350	1346	1342	1341	1345	622
35°	1125	1124	1120	1115	1117	704
45°	855	849	840	825	824	659
55°	580	568	554	539	535	518
65°	343	338	325	322	320	344
75°	186	182	178	186	193	199
85°	65	61	66	73	73	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1576.8	1576.8	1576.8	1576.8	1576.8
2.5°	1586.5	1578.3	1569.3	1569.3	1576.0
5°	1573.0	1573.0	1564.1	1564.8	1577.5
7.5°	1564.8	1560.3	1554.3	1554.3	1564.1
10°	1546.8	1543.1	1540.1	1538.6	1541.6
12.5°	1527.4	1521.4	1523.6	1521.4	1520.6
15°	1498.2	1495.2	1496.7	1495.9	1492.9
17.5°	1466.7	1465.2	1468.2	1463.0	1465.2
20°	1433.0	1428.5	1430.0	1427.0	1430.0
22.5°	1394.8	1391.9	1388.1	1384.4	1390.4
25°	1349.9	1346.2	1342.4	1340.9	1345.4
27.5°	1305.0	1299.0	1293.8	1292.3	1299.0
30°	1252.6	1245.9	1239.9	1238.4	1243.6
32.5°	1190.5	1189.0	1181.5	1178.5	1180.7
35°	1125.3	1123.8	1120.1	1114.8	1117.1
37.5°	1063.2	1062.4	1057.2	1048.2	1042.2
40°	996.5	991.3	987.6	974.8	970.3
42.5°	923.2	921.7	914.9	900.7	895.5
45°	855.0	849.0	840.1	825.1	823.6
47.5°	784.6	776.4	768.2	749.5	748.7
50°	712.0	706.0	696.3	677.6	670.1
52.5°	644.6	636.4	622.9	605.0	601.2
55°	580.3	568.3	554.0	539.1	535.3
57.5°	511.4	506.1	488.9	476.9	472.4
60°	450.7	446.2	429.0	417.8	417.8
62.5°	396.1	389.3	374.4	366.9	366.9
65°	342.9	337.7	324.9	321.9	320.4
67.5°	297.2	290.5	281.5	280.8	284.5
70°	257.6	249.3	241.8	249.3	251.6
72.5°	220.1	214.9	208.1	217.9	222.4
75°	186.4	181.9	178.2	186.4	193.2
77.5°	155.7	151.2	151.2	160.2	166.2
80°	125.0	122.0	125.0	132.5	138.5
82.5°	95.8	93.6	97.3	104.8	108.6
85°	65.1	61.4	65.9	72.6	73.4
87.5°	30.7	29.9	32.9	37.4	36.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)