

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: P293097

Luminaire Tested: **24GR-LD5-34-F1-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293097
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-L92765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3313.0 lumens
Efficiency: N/A
Efficacy: 137.5 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

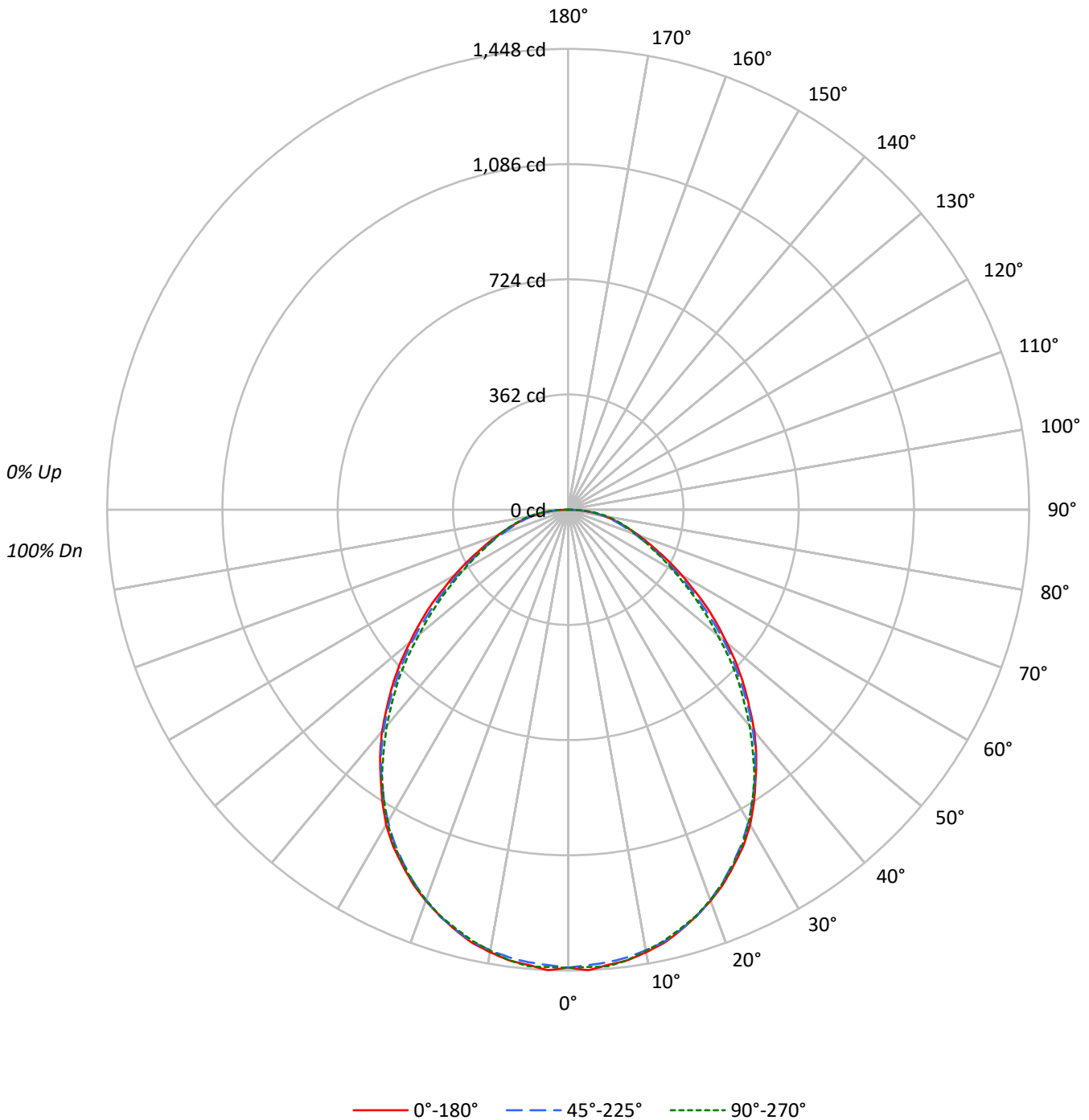
Input Watts (W): 24.087
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72					72			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37					37			
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31					31			
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1936	1936	1936
5°	1939	1928	1945
10°	1929	1920	1922
15°	1905	1903	1898
20°	1873	1869	1869
25°	1829	1819	1823
30°	1776	1758	1763
35°	1687	1679	1675
40°	1597	1583	1555
45°	1485	1459	1430
50°	1360	1330	1280
55°	1242	1186	1146
60°	1107	1054	1026
65°	996	944	931
70°	925	868	903
75°	884	845	917
80°	884	884	979
85°	917	928	1034



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.9	4.1
10°-20°	384.6	11.6
20°-30°	564.5	17.0
30°-40°	638.2	19.3
40°-50°	589.8	17.8
50°-60°	454.4	13.7
60°-70°	300.9	9.1
70°-80°	179.1	5.4
80°-90°	65.6	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°	1085.0	32.7
0°-40°	1723.1	52.0
0°-60°	2767.3	83.5
0°-90°	3313.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3313.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1439	1439	1439	1439	1439	
5°	1436	1436	1428	1428	1440	136
15°	1367	1365	1366	1365	1363	385
25°	1232	1229	1225	1224	1228	567
35°	1027	1026	1022	1018	1020	643
45°	780	775	767	753	752	601
55°	530	519	506	492	489	472
65°	313	308	297	294	292	314
75°	170	166	163	170	176	181
85°	59	56	60	66	67	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1439.1	1439.1	1439.1	1439.1	1439.1
2.5°	1448.0	1440.5	1432.3	1432.3	1438.4
5°	1435.7	1435.7	1427.5	1428.2	1439.8
7.5°	1428.2	1424.1	1418.6	1418.6	1427.5
10°	1411.8	1408.3	1405.6	1404.2	1407.0
12.5°	1394.0	1388.5	1390.6	1388.5	1387.8
15°	1367.3	1364.6	1366.0	1365.3	1362.6
17.5°	1338.6	1337.3	1340.0	1335.2	1337.3
20°	1307.9	1303.8	1305.2	1302.4	1305.2
22.5°	1273.0	1270.3	1266.9	1263.5	1268.9
25°	1232.0	1228.6	1225.2	1223.8	1227.9
27.5°	1191.0	1185.6	1180.8	1179.4	1185.6
30°	1143.2	1137.1	1131.6	1130.2	1135.0
32.5°	1086.5	1085.1	1078.3	1075.6	1077.6
35°	1027.0	1025.7	1022.3	1017.5	1019.5
37.5°	970.3	969.6	964.9	956.7	951.2
40°	909.5	904.7	901.3	889.7	885.6
42.5°	842.5	841.2	835.0	822.0	817.3
45°	780.4	774.9	766.7	753.0	751.7
47.5°	716.1	708.6	701.1	684.0	683.3
50°	649.8	644.4	635.5	618.4	611.6
52.5°	588.3	580.8	568.5	552.1	548.7
55°	529.6	518.6	505.7	492.0	488.6
57.5°	466.7	461.9	446.2	435.3	431.2
60°	411.4	407.3	391.5	381.3	381.3
62.5°	361.5	355.3	341.7	334.8	334.8
65°	313.0	308.2	296.6	293.8	292.5
67.5°	271.3	265.1	256.9	256.2	259.7
70°	235.1	227.5	220.7	227.5	229.6
72.5°	200.9	196.1	190.0	198.8	202.9
75°	170.1	166.0	162.6	170.1	176.3
77.5°	142.1	138.0	138.0	146.2	151.7
80°	114.1	111.4	114.1	120.9	126.4
82.5°	87.5	85.4	88.8	95.7	99.1
85°	59.4	56.0	60.1	66.3	67.0
87.5°	28.0	27.3	30.1	34.2	33.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)