

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: P293301

Luminaire Tested: **24GR-LD5-38-F125-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293301
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-38-F125-UNV-L93050-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3594.0 lumens
Efficiency: N/A
Efficacy: 135.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

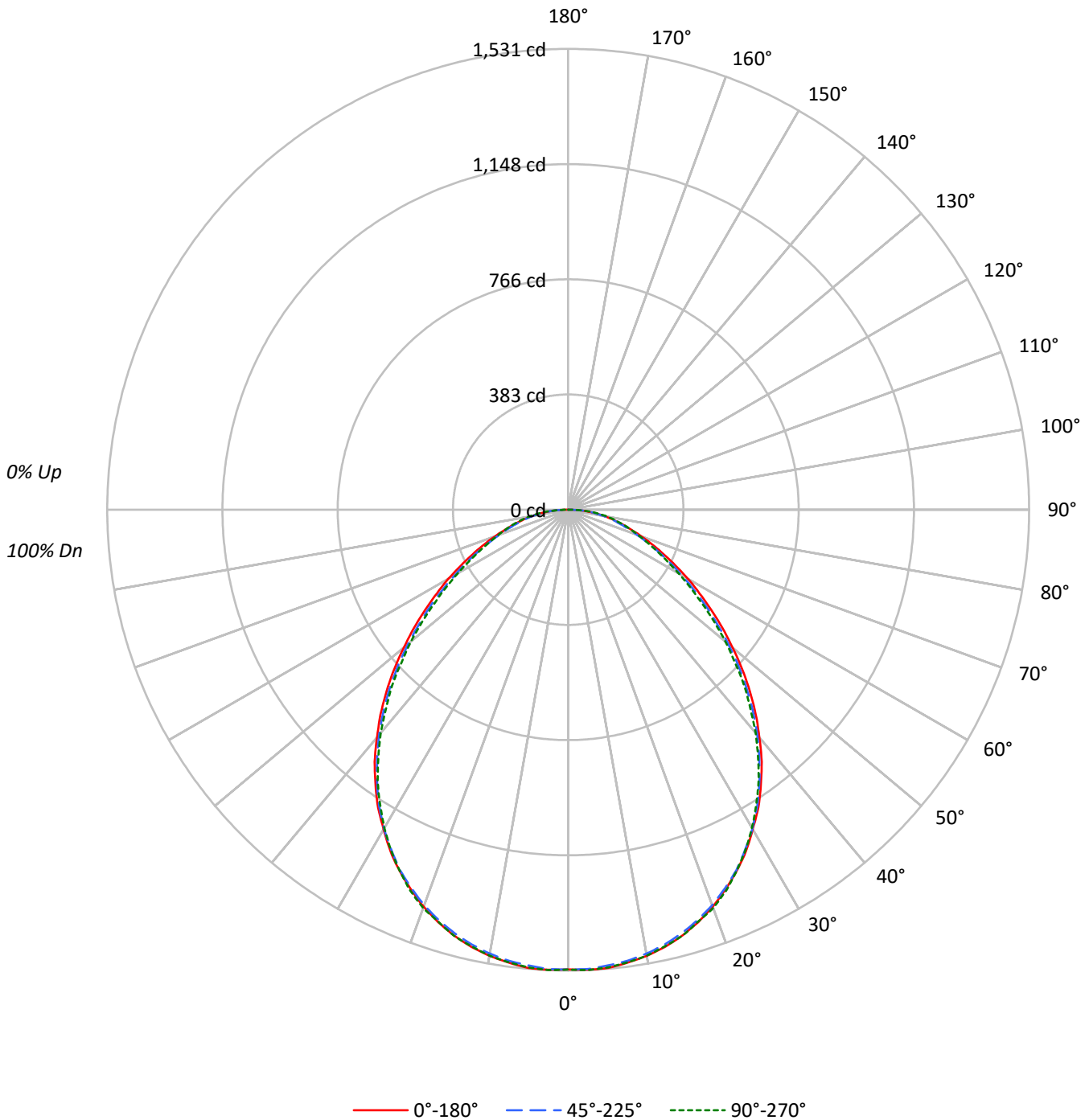
Input Watts (W): 26.455338
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	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	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2055	2055	2055
5°	2065	2053	2061
10°	2056	2046	2055
15°	2040	2029	2042
20°	2010	2002	2017
25°	1967	1962	1966
30°	1904	1901	1897
35°	1833	1819	1811
40°	1735	1715	1701
45°	1623	1593	1573
50°	1491	1451	1426
55°	1360	1310	1272
60°	1235	1168	1138
65°	1112	1050	1032
70°	1019	952	979
75°	952	908	975
80°	945	927	1019
85°	963	971	1110



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.6	4.0
10°-20°	411.0	11.4
20°-30°	607.2	16.9
30°-40°	690.3	19.2
40°-50°	644.6	17.9
50°-60°	501.3	13.9
60°-70°	332.6	9.3
70°-80°	192.5	5.4
80°-90°	70.0	1.9
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°	1162.7	32.4
0°-40°	1853.0	51.6
0°-60°	2998.9	83.4
0°-90°	3594.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3594.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1527	1527	1527	1527	1527	
5°	1529	1521	1520	1523	1526	145
15°	1464	1457	1457	1456	1466	413
25°	1325	1319	1321	1318	1324	609
35°	1116	1110	1107	1099	1103	697
45°	853	846	837	826	827	657
55°	580	571	558	544	542	520
65°	349	339	330	324	324	349
75°	183	179	175	183	188	196
85°	62	61	63	71	72	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1527.4	1527.4	1527.4	1527.4	1527.4
2.5°	1529.7	1525.2	1527.4	1525.8	1530.8
5°	1528.6	1520.7	1520.1	1523.0	1526.3
7.5°	1517.9	1509.5	1511.2	1511.2	1516.8
10°	1505.0	1496.6	1497.7	1498.2	1504.4
12.5°	1487.6	1479.1	1479.7	1479.1	1485.3
15°	1464.5	1457.2	1456.7	1456.1	1465.7
17.5°	1436.4	1426.3	1429.7	1430.3	1435.3
20°	1403.9	1396.0	1398.2	1397.7	1408.4
22.5°	1365.1	1359.5	1361.2	1360.0	1370.2
25°	1324.7	1319.0	1321.3	1318.5	1324.1
27.5°	1279.1	1275.2	1273.0	1271.3	1275.2
30°	1225.8	1223.5	1223.5	1216.2	1220.7
32.5°	1175.2	1167.9	1167.9	1165.1	1162.3
35°	1115.7	1110.1	1107.2	1099.4	1102.8
37.5°	1056.1	1043.2	1042.1	1035.9	1035.9
40°	987.6	980.3	976.4	969.6	968.5
42.5°	922.4	915.1	908.4	897.1	894.9
45°	852.8	846.0	837.0	826.4	826.9
47.5°	783.7	774.1	765.7	752.8	751.1
50°	712.3	705.6	693.2	682.0	681.4
52.5°	645.5	634.8	623.6	610.1	610.1
55°	579.7	571.3	558.4	543.8	542.1
57.5°	516.8	509.0	494.4	483.7	480.9
60°	459.0	447.7	434.2	425.3	423.0
62.5°	401.1	391.0	380.9	371.9	371.3
65°	349.4	338.7	329.8	323.6	324.1
67.5°	302.8	293.8	283.7	282.0	282.6
70°	259.0	249.4	242.1	246.1	248.9
72.5°	217.4	212.3	207.3	212.9	216.8
75°	183.1	178.6	174.7	182.6	187.6
77.5°	151.7	148.3	147.7	154.5	159.0
80°	121.9	118.0	119.7	127.5	131.5
82.5°	92.7	89.9	90.4	100.0	102.8
85°	62.4	61.2	62.9	71.3	71.9
87.5°	33.1	33.1	34.3	39.3	37.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)