

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: P293216

Luminaire Tested: **24GR-LD5-34-F125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293216
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-LD5-34-F125-UNV-L82765-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3296.0 lumens
Efficiency: N/A
Efficacy: 144.7 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

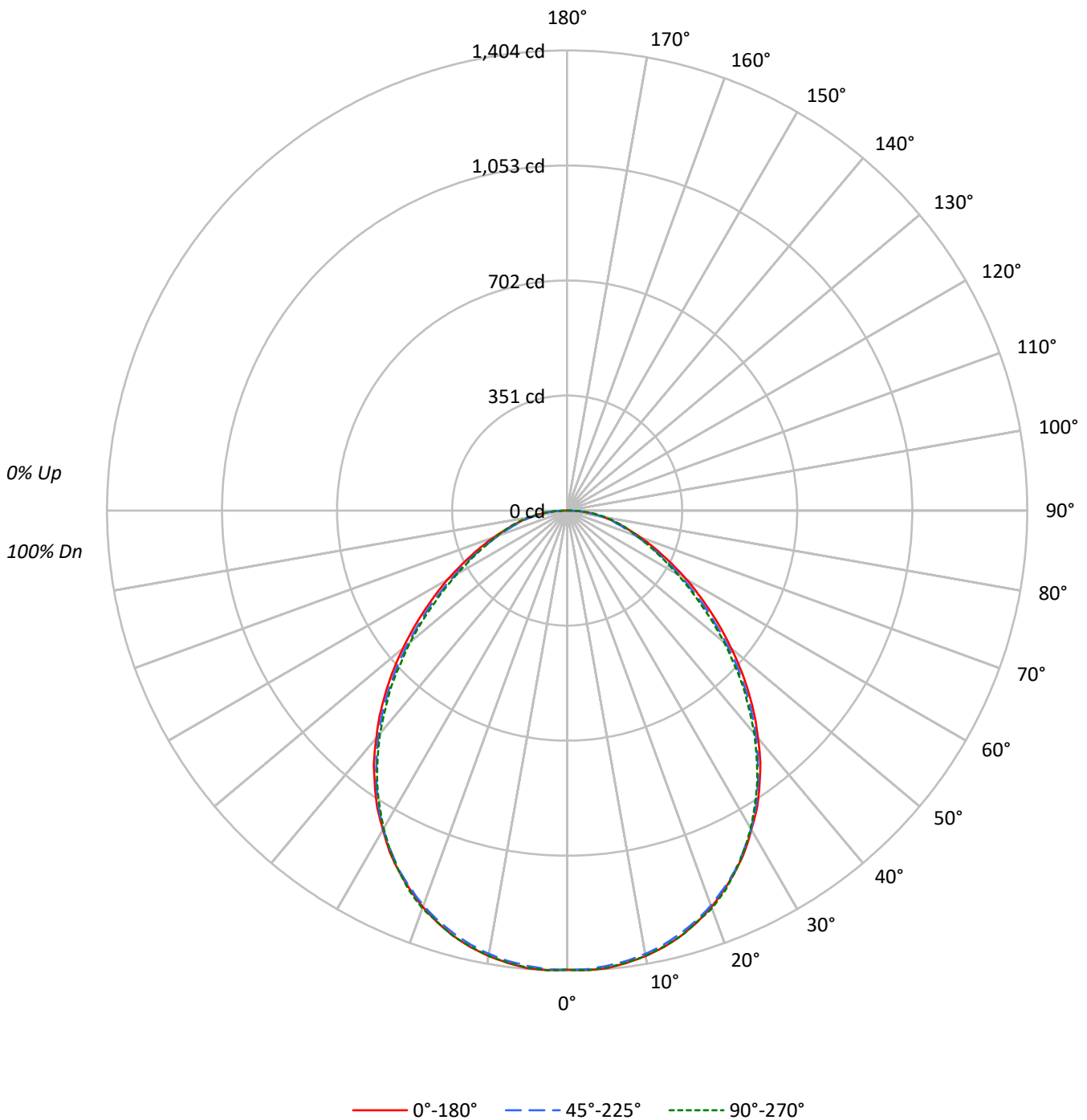
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1885	1885	1885
5°	1893	1883	1891
10°	1886	1877	1885
15°	1871	1861	1872
20°	1843	1836	1849
25°	1803	1799	1803
30°	1746	1743	1739
35°	1681	1668	1661
40°	1591	1573	1560
45°	1488	1461	1443
50°	1367	1331	1308
55°	1247	1201	1166
60°	1133	1072	1044
65°	1020	963	947
70°	934	873	898
75°	873	833	895
80°	866	850	934
85°	883	891	1017



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.6	4.0
10°-20°	376.9	11.4
20°-30°	556.8	16.9
30°-40°	633.0	19.2
40°-50°	591.2	17.9
50°-60°	459.7	13.9
60°-70°	305.0	9.3
70°-80°	176.5	5.4
80°-90°	64.2	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°	1066.3	32.4
0°-40°	1699.3	51.6
0°-60°	2750.2	83.4
0°-90°	3296.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3296.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1401	1401	1401	1401	1401	
5°	1402	1395	1394	1397	1400	133
15°	1343	1336	1336	1335	1344	378
25°	1215	1210	1212	1209	1214	559
35°	1023	1018	1015	1008	1011	639
45°	782	776	768	758	758	603
55°	532	524	512	499	497	477
65°	320	311	302	297	297	320
75°	168	164	160	167	172	180
85°	57	56	58	65	66	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1400.8	1400.8	1400.8	1400.8	1400.8
2.5°	1402.9	1398.7	1400.8	1399.3	1403.9
5°	1401.8	1394.6	1394.1	1396.7	1399.8
7.5°	1392.0	1384.3	1385.9	1385.9	1391.0
10°	1380.2	1372.5	1373.5	1374.0	1379.7
12.5°	1364.2	1356.5	1357.0	1356.5	1362.2
15°	1343.1	1336.4	1335.9	1335.4	1344.1
17.5°	1317.3	1308.1	1311.2	1311.7	1316.3
20°	1287.5	1280.2	1282.3	1281.8	1291.6
22.5°	1251.9	1246.8	1248.3	1247.3	1256.5
25°	1214.8	1209.7	1211.7	1209.1	1214.3
27.5°	1173.1	1169.5	1167.4	1165.9	1169.5
30°	1124.1	1122.1	1122.1	1115.4	1119.5
32.5°	1077.8	1071.1	1071.1	1068.5	1065.9
35°	1023.2	1018.0	1015.4	1008.2	1011.3
37.5°	968.6	956.7	955.7	950.0	950.0
40°	905.7	899.0	895.4	889.2	888.2
42.5°	845.9	839.2	833.1	822.8	820.7
45°	782.1	775.9	767.6	757.8	758.4
47.5°	718.7	709.9	702.2	690.4	688.8
50°	653.3	647.1	635.7	625.4	624.9
52.5°	592.0	582.2	571.9	559.5	559.5
55°	531.7	523.9	512.1	498.7	497.2
57.5°	474.0	466.8	453.4	443.6	441.0
60°	420.9	410.6	398.2	390.0	387.9
62.5°	367.8	358.6	349.3	341.1	340.5
65°	320.4	310.7	302.4	296.7	297.3
67.5°	277.7	269.4	260.2	258.6	259.1
70°	237.5	228.7	222.0	225.7	228.2
72.5°	199.4	194.7	190.1	195.3	198.9
75°	168.0	163.8	160.2	167.4	172.1
77.5°	139.1	136.0	135.5	141.7	145.8
80°	111.8	108.2	109.7	116.9	120.6
82.5°	85.0	82.4	82.9	91.7	94.3
85°	57.2	56.2	57.7	65.4	65.9
87.5°	30.4	30.4	31.4	36.1	34.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)