

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: P293243

Luminaire Tested: **24GR-LD5-48-F125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293243
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-LD5-48-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: 4578.0 lumens
Efficiency: N/A
Efficacy: 140.2 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

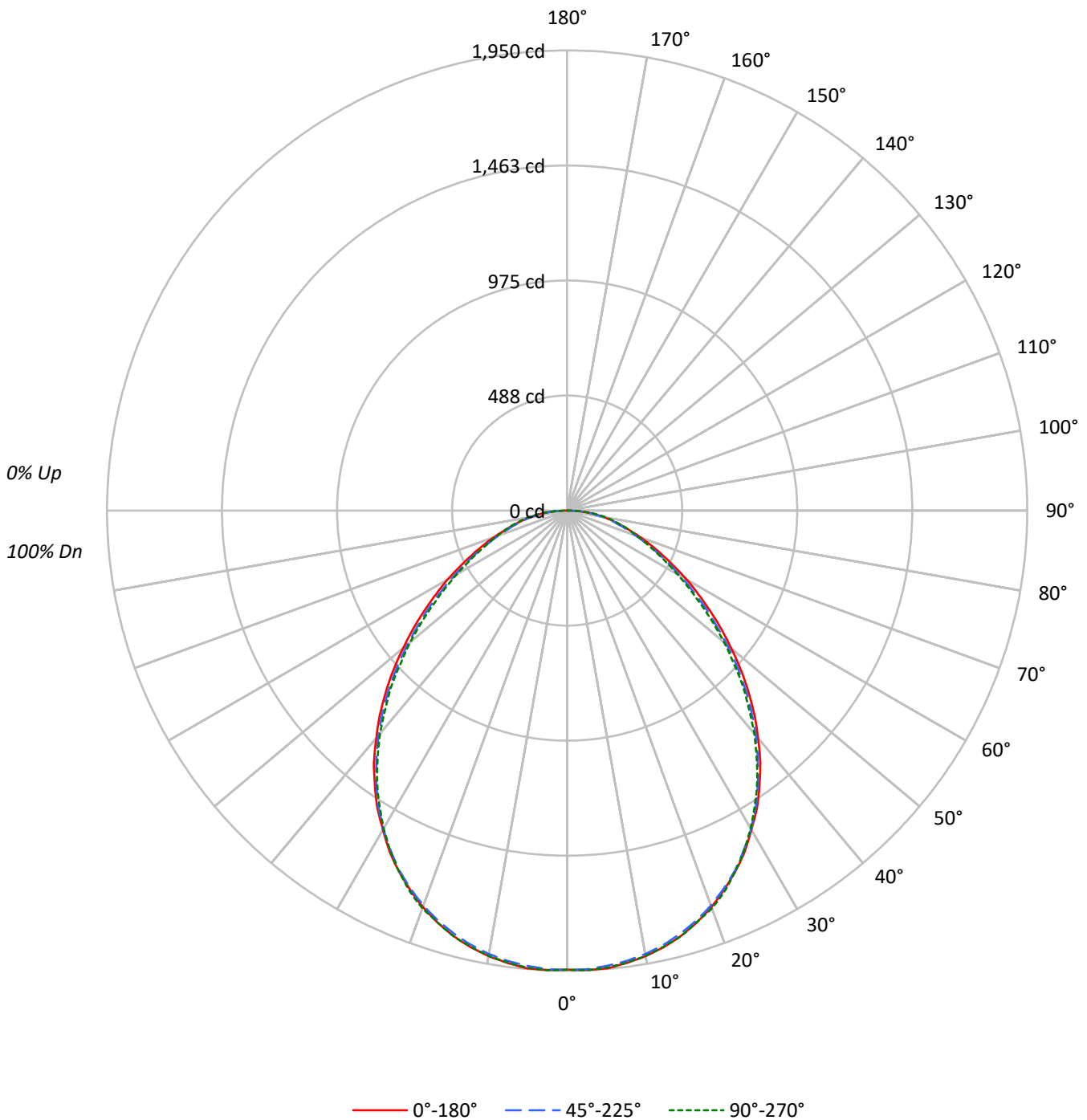
Input Watts (W): 32.643
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2618	2618	2618
5°	2630	2615	2626
10°	2619	2606	2618
15°	2599	2585	2601
20°	2560	2550	2569
25°	2505	2499	2504
30°	2426	2421	2416
35°	2334	2317	2307
40°	2210	2184	2167
45°	2067	2029	2004
50°	1899	1848	1817
55°	1732	1669	1620
60°	1573	1488	1450
65°	1417	1337	1315
70°	1298	1213	1247
75°	1213	1157	1242
80°	1203	1181	1297
85°	1226	1237	1414



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.1	4.0
10°-20°	523.5	11.4
20°-30°	773.4	16.9
30°-40°	879.3	19.2
40°-50°	821.1	17.9
50°-60°	638.5	13.9
60°-70°	423.7	9.3
70°-80°	245.2	5.4
80°-90°	89.2	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°	1481.0	32.4
0°-40°	2360.3	51.6
0°-60°	3819.9	83.4
0°-90°	4578.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4578.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1946	1946	1946	1946	1946	
5°	1947	1937	1936	1940	1944	185
15°	1866	1856	1856	1855	1867	526
25°	1687	1680	1683	1680	1687	776
35°	1421	1414	1410	1400	1405	887
45°	1086	1078	1066	1053	1053	837
55°	738	728	711	693	690	662
65°	445	432	420	412	413	445
75°	233	228	222	233	239	250
85°	79	78	80	91	92	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1945.6	1945.6	1945.6	1945.6	1945.6
2.5°	1948.5	1942.8	1945.6	1943.5	1949.9
5°	1947.1	1937.1	1936.3	1939.9	1944.2
7.5°	1933.5	1922.8	1924.9	1924.9	1932.1
10°	1917.0	1906.3	1907.7	1908.4	1916.3
12.5°	1894.8	1884.1	1884.8	1884.1	1892.0
15°	1865.5	1856.2	1855.5	1854.8	1866.9
17.5°	1829.7	1816.8	1821.1	1821.9	1828.3
20°	1788.2	1778.2	1781.1	1780.4	1793.9
22.5°	1738.8	1731.7	1733.8	1732.4	1745.3
25°	1687.3	1680.2	1683.0	1679.5	1686.6
27.5°	1629.4	1624.4	1621.5	1619.3	1624.4
30°	1561.4	1558.5	1558.5	1549.2	1554.9
32.5°	1497.0	1487.7	1487.7	1484.1	1480.5
35°	1421.1	1414.0	1410.4	1400.4	1404.7
37.5°	1345.3	1328.8	1327.4	1319.5	1319.5
40°	1258.0	1248.7	1243.7	1235.1	1233.7
42.5°	1175.0	1165.7	1157.1	1142.8	1139.9
45°	1086.2	1077.7	1066.2	1052.6	1053.3
47.5°	998.2	986.1	975.3	958.9	956.7
50°	907.3	898.8	883.0	868.7	868.0
52.5°	822.2	808.6	794.3	777.1	777.1
55°	738.5	727.7	711.3	692.7	690.5
57.5°	658.3	648.3	629.7	616.1	612.5
60°	584.6	570.3	553.1	541.7	538.8
62.5°	510.9	498.0	485.2	473.7	473.0
65°	445.1	431.5	420.0	412.2	412.9
67.5°	385.7	374.2	361.4	359.2	359.9
70°	329.9	317.7	308.4	313.4	317.0
72.5°	276.9	270.5	264.0	271.2	276.2
75°	233.3	227.6	222.5	232.6	239.0
77.5°	193.2	188.9	188.2	196.8	202.5
80°	155.3	150.3	152.4	162.4	167.4
82.5°	118.1	114.5	115.2	127.4	131.0
85°	79.4	78.0	80.1	90.9	91.6
87.5°	42.2	42.2	43.7	50.1	47.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)