

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: P219075

Luminaire Tested: **24GR-LD5-64-F1-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219075
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35585)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-64-F1-UNV-L950-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: -

Summary

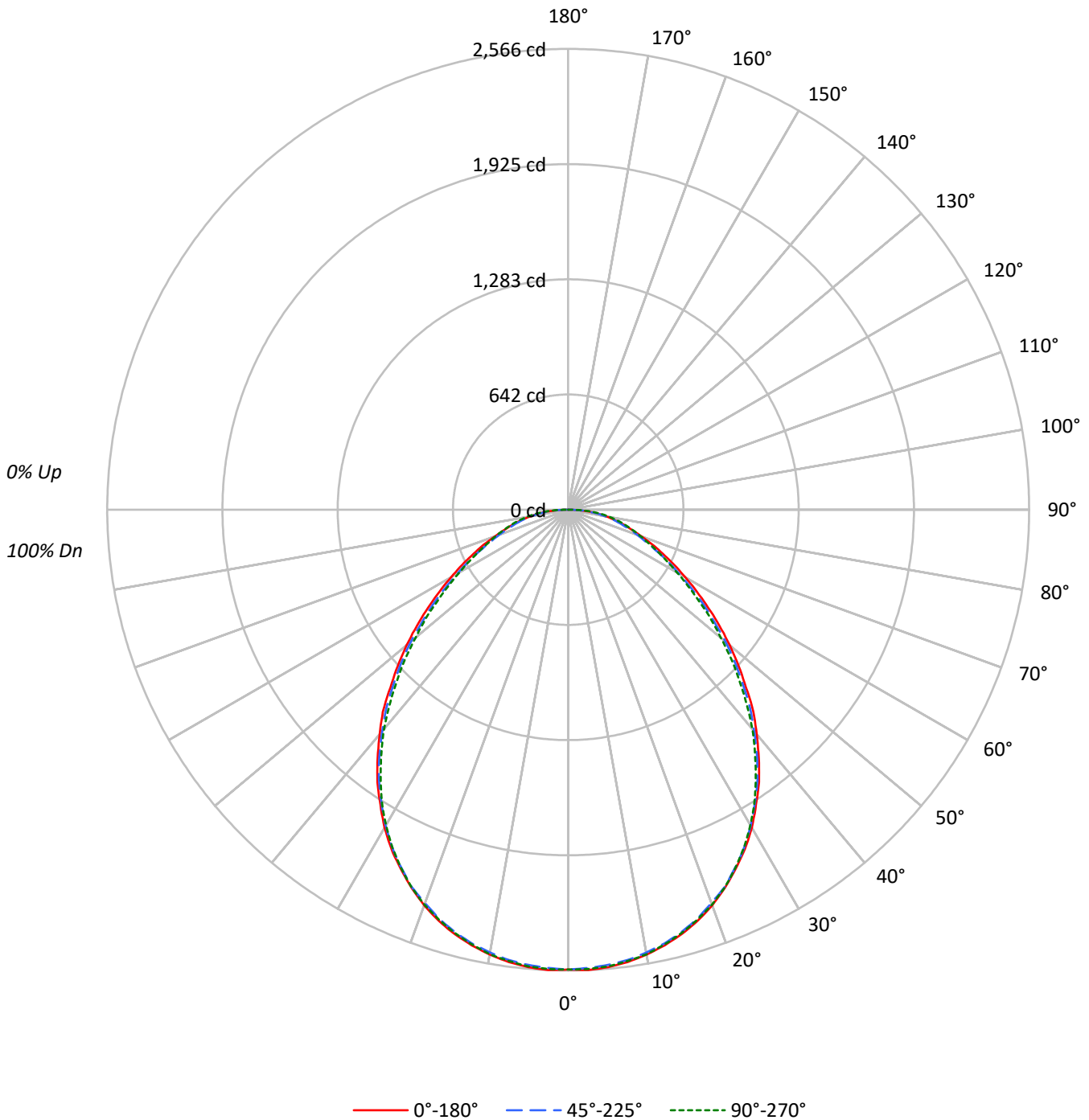
Lumens per Lamp: N/A
Luminaire Lumens: 5980.1 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 48.149
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	94	92	90	91	89	87	85					85			
2	100	92	86	80	98	90	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62					62			
4	85	73	65	58	82	72	64	58	69	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	72	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°	3922	3922	3922
5°	3931	3912	3924
10°	3912	3895	3909
15°	3879	3861	3870
20°	3822	3799	3814
25°	3729	3716	3719
30°	3615	3594	3587
35°	3462	3434	3403
40°	3263	3220	3189
45°	3032	2978	2922
50°	2795	2722	2641
55°	2541	2452	2376
60°	2302	2180	2141
65°	2105	1965	1978
70°	1936	1825	1912
75°	1882	1784	1948
80°	1887	1838	2074
85°	2074	1961	2285



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.9	4.0
10°-20°	686.6	11.5
20°-30°	1011.7	16.9
30°-40°	1144.1	19.1
40°-50°	1061.2	17.7
50°-60°	824.4	13.8
60°-70°	552.9	9.2
70°-80°	331.3	5.5
80°-90°	126.1	2.1
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°	1940.1	32.4
0°-40°	3084.2	51.6
0°-60°	4969.8	83.1
0°-90°	5980.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5980.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2560	2560	2560	2560	2560	
5°	2557	2549	2545	2543	2552	243
15°	2446	2436	2435	2430	2440	689
25°	2206	2204	2199	2195	2201	1015
35°	1851	1844	1837	1826	1820	1154
45°	1400	1394	1375	1354	1349	1082
55°	952	940	918	895	890	854
65°	581	562	542	540	546	580
75°	318	307	302	316	329	336
85°	118	111	112	131	130	124
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2560.4	2560.4	2560.4	2560.4	2560.4
2.5°	2565.9	2557.6	2553.9	2552.1	2560.4
5°	2556.7	2549.4	2544.7	2542.9	2552.1
7.5°	2540.1	2531.8	2529.1	2525.3	2534.6
10°	2515.2	2507.9	2504.1	2501.4	2513.4
12.5°	2483.8	2477.4	2473.7	2471.9	2479.3
15°	2446.1	2436.0	2435.0	2430.4	2440.5
17.5°	2399.0	2389.8	2388.0	2386.1	2392.6
20°	2344.6	2335.4	2330.8	2329.9	2340.1
22.5°	2279.2	2272.7	2274.5	2269.1	2276.5
25°	2206.4	2203.6	2199.0	2195.3	2200.8
27.5°	2130.8	2121.6	2121.6	2114.1	2119.7
30°	2044.0	2037.7	2032.1	2024.8	2028.4
32.5°	1946.3	1943.6	1935.3	1927.9	1929.7
35°	1851.4	1844.0	1836.7	1825.6	1820.0
37.5°	1742.6	1735.2	1726.0	1710.3	1708.4
40°	1631.9	1625.5	1610.7	1594.1	1595.0
42.5°	1526.8	1516.7	1498.2	1476.1	1471.6
45°	1399.6	1394.0	1374.7	1353.5	1348.9
47.5°	1286.2	1282.5	1258.5	1236.4	1230.9
50°	1172.8	1162.6	1142.3	1120.2	1108.3
52.5°	1061.2	1048.3	1022.5	1007.7	1002.2
55°	951.5	940.5	918.3	895.3	889.7
57.5°	849.1	837.2	810.4	793.9	791.1
60°	751.5	740.4	711.8	699.8	698.9
62.5°	664.8	646.3	627.0	618.7	619.6
65°	580.9	562.4	542.2	540.3	545.8
67.5°	507.1	487.8	467.5	474.8	480.4
70°	432.4	418.6	407.5	419.5	426.9
72.5°	368.8	360.5	350.4	367.0	376.2
75°	318.1	307.0	301.5	316.2	329.1
77.5°	263.7	254.4	254.4	270.2	284.0
80°	213.9	207.5	208.4	226.8	235.1
82.5°	167.8	158.6	159.5	182.5	188.1
85°	118.0	110.7	111.6	130.9	130.0
87.5°	61.8	59.0	61.8	75.6	71.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)