

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: P225810

Luminaire Tested: **22GR-LD5-24-F1-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225810
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35595)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-24-F1-UNV-L940-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2150.9 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.18 / 1.24
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

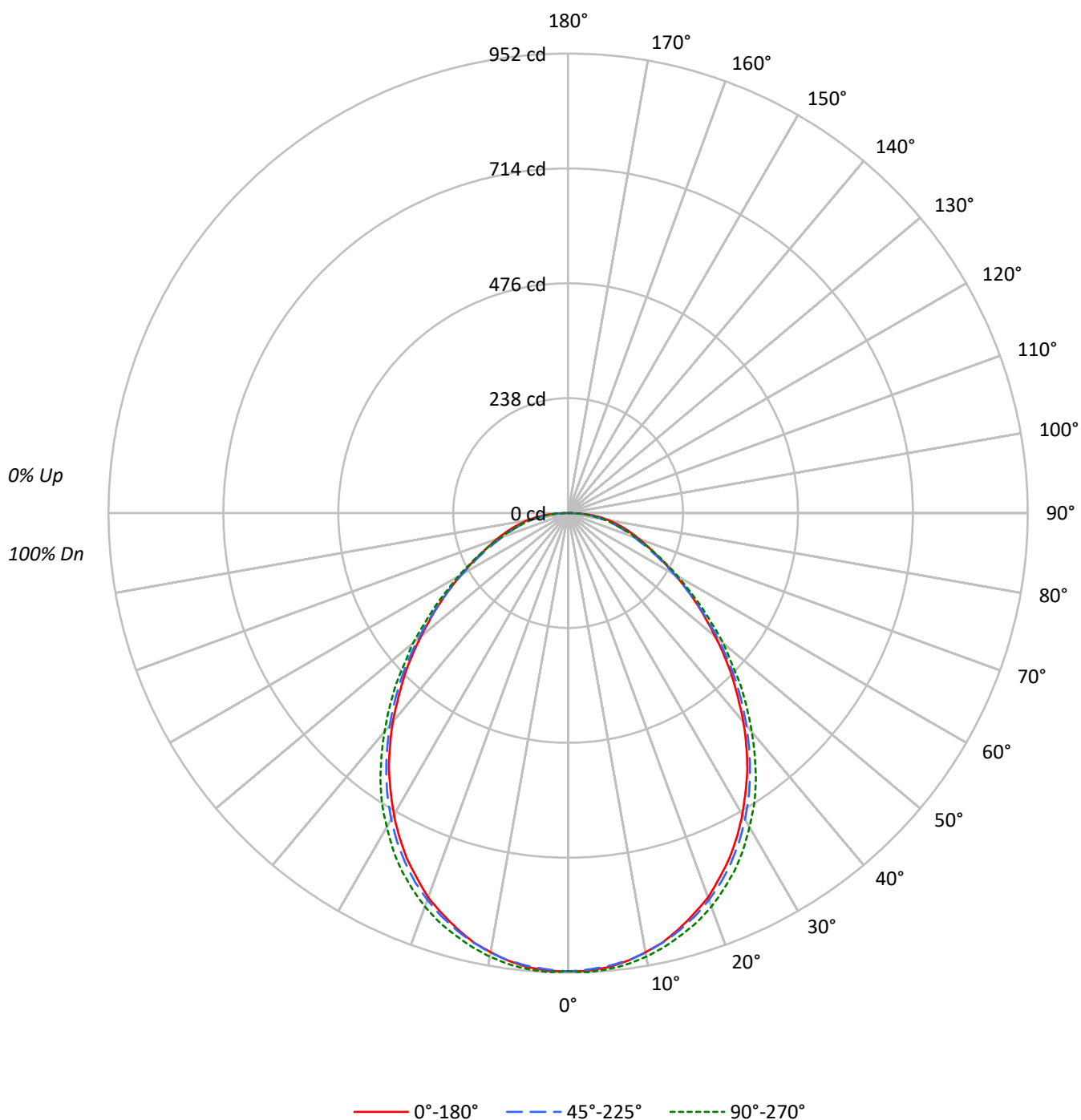
Input Watts (W): 19.219
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	103	99	96		98	95	93		95	92	90		91	89	87
2	100	93	86	81	98	91	85	80		87	82	78		84	80	76		81	78	74
3	92	82	74	68	90	81	73	68		78	72	67		75	70	65		72	68	64
4	85	73	65	59	83	72	64	58		70	63	58		67	62	57		65	60	56
5	78	66	58	51	76	65	57	51		63	56	51		61	55	50		59	54	49
6	73	60	51	45	71	59	51	45		57	50	45		56	49	44		54	48	44
7	68	55	46	40	66	54	46	40		52	45	40		51	45	40		50	44	39
8	63	50	42	36	62	49	42	36		48	41	36		47	41	36		46	40	36
9	59	46	38	33	58	46	38	33		45	38	33		43	37	33		42	37	32
10	56	43	35	30	54	42	35	30		41	35	30		40	34	30		40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3041	3041	3041
5°	3037	3029	3050
10°	3005	3008	3035
15°	2954	2965	3001
20°	2888	2907	2957
25°	2791	2822	2885
30°	2669	2709	2776
35°	2530	2567	2650
40°	2361	2400	2474
45°	2178	2221	2288
50°	1981	2018	2089
55°	1801	1815	1870
60°	1634	1621	1681
65°	1503	1462	1522
70°	1460	1354	1405
75°	1477	1325	1343
80°	1573	1356	1374
85°	1742	1451	1433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.6	4.2
10°-20°	252.5	11.7
20°-30°	368.0	17.1
30°-40°	411.4	19.1
40°-50°	378.4	17.6
50°-60°	293.1	13.6
60°-70°	196.5	9.1
70°-80°	117.6	5.5
80°-90°	44.0	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°	710.0	33.0
0°-40°	1121.4	52.1
0°-60°	1792.9	83.4
0°-90°	2150.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2150.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	950	950	950	950	950	
5°	945	943	942	946	949	90
15°	891	892	894	901	905	251
25°	790	792	799	810	816	363
35°	647	648	657	669	678	403
45°	481	482	490	498	505	370
55°	323	323	325	330	335	289
65°	198	197	193	195	201	199
75°	119	114	107	106	108	127
85°	47	48	40	37	39	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	949.6	949.6	949.6	949.6	949.6
2.5°	949.1	947.1	946.7	949.6	952.1
5°	944.7	942.7	942.2	946.2	948.7
7.5°	936.3	934.8	935.3	939.3	942.7
10°	924.0	923.5	924.9	929.9	933.4
12.5°	910.1	909.2	910.7	917.0	920.5
15°	890.9	891.9	894.4	901.3	905.2
17.5°	869.7	870.7	875.1	882.0	888.5
20°	847.5	847.0	852.9	862.3	867.7
22.5°	818.4	820.9	827.8	837.6	843.1
25°	789.8	791.7	798.7	810.0	816.4
27.5°	756.7	760.2	767.6	778.5	785.9
30°	721.7	724.6	732.5	744.9	750.8
32.5°	683.7	687.7	696.1	709.4	716.8
35°	647.2	648.2	656.6	669.4	677.8
37.5°	605.8	608.3	616.1	630.5	634.9
40°	564.8	566.8	574.2	586.1	591.9
42.5°	520.9	524.4	532.3	541.2	548.1
45°	481.0	482.5	490.4	497.8	505.2
47.5°	439.0	440.5	447.5	455.3	458.3
50°	397.6	399.6	405.0	412.9	419.3
52.5°	359.1	360.1	362.6	371.4	374.4
55°	322.6	323.1	325.1	330.0	335.0
57.5°	288.1	287.6	287.1	291.5	296.0
60°	255.1	254.0	253.1	256.5	262.5
62.5°	225.9	225.0	221.0	225.0	229.9
65°	198.3	196.9	192.9	194.9	200.8
67.5°	176.6	173.6	167.3	169.7	174.2
70°	155.9	152.0	144.6	146.5	150.0
72.5°	137.6	131.8	125.3	125.8	129.3
75°	119.4	114.5	107.1	106.0	108.5
77.5°	102.1	98.1	90.3	88.8	90.7
80°	85.3	81.4	73.5	70.5	74.5
82.5°	67.1	65.6	56.8	54.8	56.2
85°	47.4	47.8	39.5	37.0	39.0
87.5°	24.2	25.2	20.2	19.7	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)