

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: P231806

Luminaire Tested: **24GR-LD5-130-A-UNV-L940-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231806
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-130-A-UNV-L940-CD2-U
Description: METALUX 2X4 GRLED TROFFER
WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

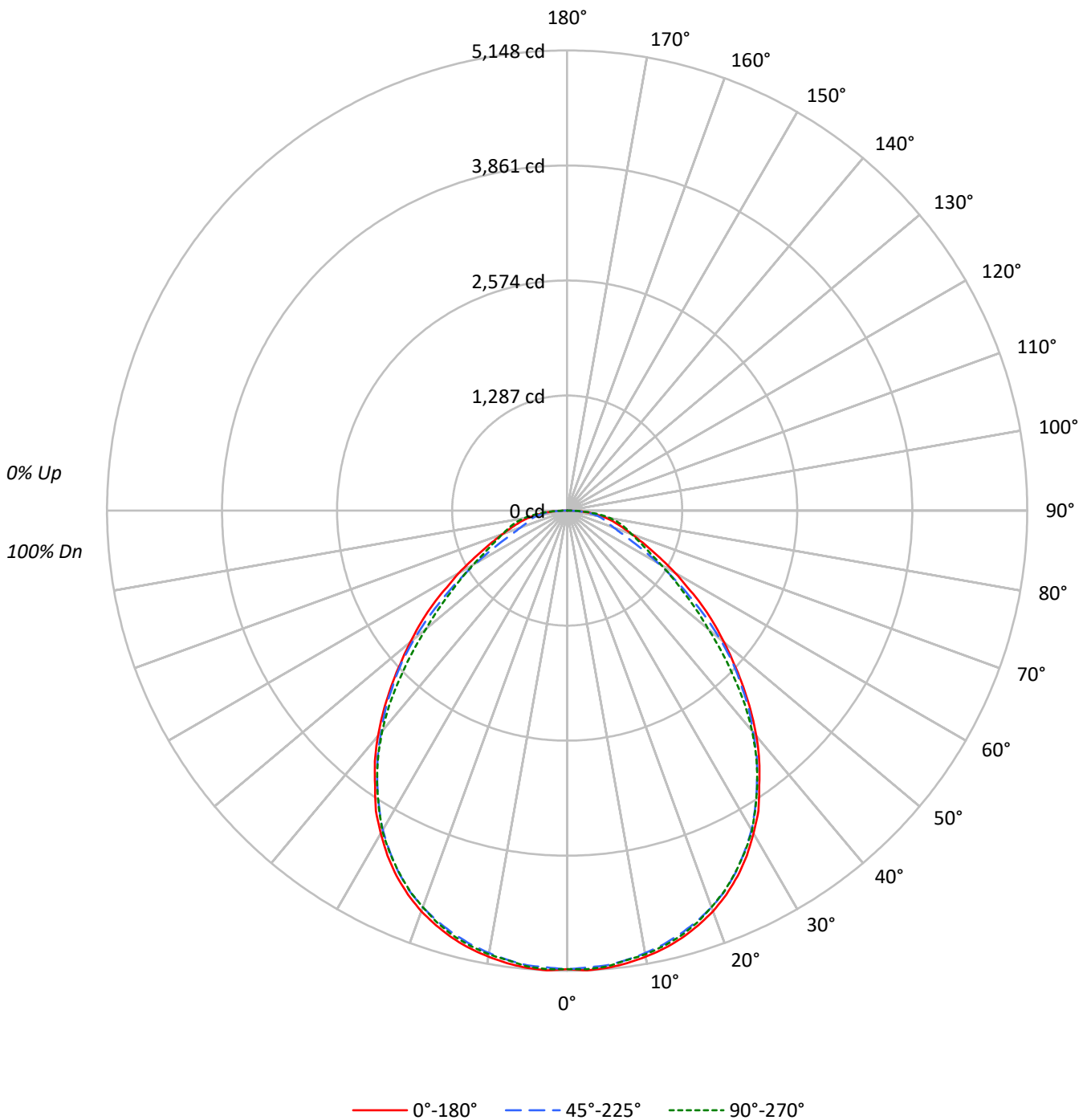
Lumens per Lamp: N/A
Luminaire Lumens: 11563.6 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 99.2
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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63					63			
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7858	7858	7858
5°	7896	7853	7872
10°	7882	7818	7840
15°	7852	7773	7807
20°	7777	7699	7696
25°	7626	7544	7538
30°	7374	7298	7314
35°	7005	6924	6934
40°	6586	6472	6433
45°	6036	5955	5719
50°	5457	5308	4908
55°	4899	4460	4231
60°	4290	3590	3721
65°	3742	2823	3425
70°	3424	2464	3424
75°	3425	2622	3774
80°	3719	3088	4302
85°	4081	3485	4615



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.8	4.2
10°-20°	1386.5	12.0
20°-30°	2055.9	17.8
30°-40°	2319.3	20.1
40°-50°	2100.6	18.2
50°-60°	1515.5	13.1
60°-70°	904.9	7.8
70°-80°	559.3	4.8
80°-90°	235.6	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°	3928.3	34.0
0°-40°	6247.7	54.0
0°-60°	9863.8	85.3
0°-90°	11563.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11563.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5131	5131	5131	5131	5131	
5°	5136	5129	5107	5102	5120	488
15°	4952	4922	4902	4904	4923	1396
25°	4512	4488	4464	4448	4461	2073
35°	3746	3741	3703	3705	3709	2344
45°	2787	2769	2749	2681	2640	2148
55°	1835	1778	1670	1588	1585	1638
65°	1032	909	779	884	945	1039
75°	579	502	443	552	638	618
85°	232	204	198	259	263	243
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5130.6	5130.6	5130.6	5130.6	5130.6
2.5°	5148.5	5134.2	5116.3	5127.1	5136.0
5°	5136.0	5128.9	5107.4	5102.0	5119.9
7.5°	5109.2	5091.3	5071.7	5080.6	5073.5
10°	5068.1	5052.0	5027.0	5028.8	5041.3
12.5°	5018.1	4998.4	4971.7	4978.8	4989.5
15°	4952.0	4921.6	4901.9	4903.7	4923.4
17.5°	4868.0	4844.8	4819.8	4825.1	4834.1
20°	4771.5	4759.1	4723.3	4712.6	4721.5
22.5°	4650.1	4626.9	4607.2	4601.9	4603.6
25°	4512.5	4487.5	4464.3	4448.2	4460.7
27.5°	4351.8	4330.3	4299.9	4294.6	4305.2
30°	4169.5	4153.5	4126.6	4119.5	4135.6
32.5°	3983.7	3956.9	3919.4	3919.4	3923.0
35°	3746.2	3740.7	3703.2	3705.1	3708.7
37.5°	3531.8	3506.7	3485.3	3463.9	3474.6
40°	3294.1	3265.6	3237.0	3222.7	3217.3
42.5°	3038.7	3017.3	3004.8	2953.0	2940.4
45°	2786.8	2768.9	2749.3	2681.4	2640.4
47.5°	2529.6	2526.0	2509.9	2390.2	2349.2
50°	2290.2	2284.8	2227.7	2100.8	2059.8
52.5°	2063.3	2027.6	1952.5	1827.5	1820.4
55°	1834.6	1777.5	1670.3	1588.2	1584.6
57.5°	1593.5	1525.6	1416.7	1372.0	1395.2
60°	1400.6	1297.0	1171.9	1177.3	1214.8
62.5°	1200.5	1084.4	961.1	1014.7	1059.3
65°	1032.5	909.3	778.9	884.3	945.1
67.5°	886.1	771.8	646.7	787.8	846.8
70°	764.6	671.7	550.2	698.5	764.6
72.5°	668.1	582.4	487.7	627.0	703.8
75°	578.8	502.0	443.1	552.0	637.8
77.5°	502.0	427.0	400.2	487.7	571.6
80°	421.6	353.7	350.1	425.2	487.7
82.5°	328.7	282.3	282.3	355.5	393.0
85°	232.2	203.6	198.3	259.0	262.6
87.5°	119.7	114.3	103.6	135.8	135.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)