

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: P219138

Luminaire Tested: **24GR-LD5-90-A-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219138
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-LD5-90-A-UNV-L950-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8512.6 lumens
Efficiency: N/A
Efficacy: 123.2 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

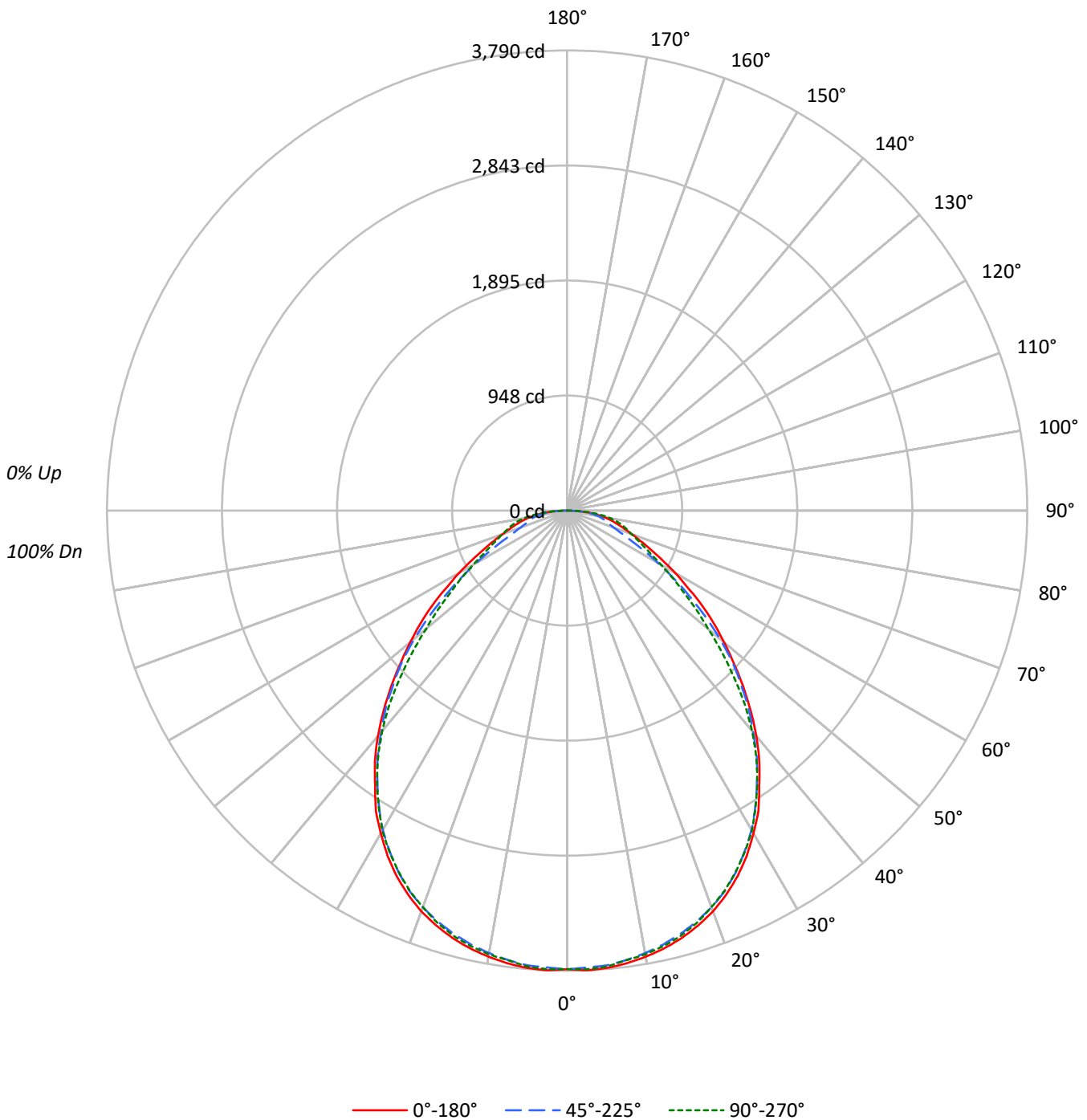
Input Watts (W): 69.117
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93		95	93	90		91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79		85	81	77		82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68		76	71	67		73	69	65	63
4	86	74	66	60	83	73	65	60	71	64	59		68	63	58		66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52		62	56	51		60	55	51	49
6	73	61	53	46	72	60	52	46	58	51	46		57	50	45		55	49	45	43
7	68	56	47	42	67	55	47	41	53	46	41		52	46	41		51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37		48	41	37		47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34		44	38	33		43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31		41	35	31		40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5785	5785	5785
5°	5813	5781	5795
10°	5802	5756	5772
15°	5781	5722	5747
20°	5725	5667	5665
25°	5614	5554	5549
30°	5428	5373	5384
35°	5156	5097	5105
40°	4849	4764	4736
45°	4444	4384	4210
50°	4017	3908	3613
55°	3607	3283	3115
60°	3158	2643	2739
65°	2755	2078	2521
70°	2520	1814	2520
75°	2522	1930	2778
80°	2738	2273	3166
85°	3005	2566	3397



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.7	4.2
10°-20°	1020.7	12.0
20°-30°	1513.5	17.8
30°-40°	1707.4	20.1
40°-50°	1546.4	18.2
50°-60°	1115.6	13.1
60°-70°	666.1	7.8
70°-80°	411.7	4.8
80°-90°	173.4	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°	2891.9	34.0
0°-40°	4599.3	54.0
0°-60°	7261.3	85.3
0°-90°	8512.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8512.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3777	3777	3777	3777	3777	
5°	3781	3776	3760	3756	3769	359
15°	3646	3623	3609	3610	3624	1028
25°	3322	3304	3286	3274	3284	1526
35°	2758	2754	2726	2728	2730	1725
45°	2052	2038	2024	1974	1944	1581
55°	1351	1308	1230	1169	1166	1206
65°	760	669	573	651	696	765
75°	426	370	326	406	470	455
85°	171	150	146	191	193	179
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3777.0	3777.0	3777.0	3777.0	3777.0
2.5°	3790.1	3779.6	3766.4	3774.3	3780.9
5°	3780.9	3775.6	3759.8	3755.9	3769.0
7.5°	3761.1	3748.0	3733.5	3740.1	3734.8
10°	3730.9	3719.1	3700.7	3702.0	3711.2
12.5°	3694.1	3679.6	3659.9	3665.1	3673.0
15°	3645.5	3623.1	3608.6	3609.9	3624.3
17.5°	3583.6	3566.6	3548.1	3552.1	3558.6
20°	3512.6	3503.4	3477.1	3469.2	3475.7
22.5°	3423.1	3406.0	3391.6	3387.7	3389.0
25°	3322.0	3303.5	3286.4	3274.5	3283.7
27.5°	3203.6	3187.7	3165.4	3161.4	3169.3
30°	3069.4	3057.6	3037.9	3032.6	3044.4
32.5°	2932.7	2912.9	2885.3	2885.3	2888.0
35°	2757.8	2753.8	2726.2	2727.5	2730.1
37.5°	2600.0	2581.5	2565.7	2550.0	2557.8
40°	2425.1	2403.9	2382.9	2372.5	2368.5
42.5°	2237.0	2221.2	2211.9	2173.8	2164.6
45°	2051.5	2038.4	2023.9	1974.0	1943.7
47.5°	1862.1	1859.5	1847.7	1759.6	1729.4
50°	1686.0	1682.0	1639.9	1546.5	1516.3
52.5°	1519.0	1492.6	1437.4	1345.3	1340.1
55°	1350.6	1308.5	1229.6	1169.1	1166.5
57.5°	1173.1	1123.1	1042.9	1010.0	1027.1
60°	1031.0	954.8	862.7	866.7	894.3
62.5°	883.7	798.3	707.5	746.9	779.9
65°	760.1	669.4	573.4	651.0	695.7
67.5°	652.3	568.1	476.0	579.9	623.4
70°	562.8	494.5	405.0	514.2	562.8
72.5°	491.9	428.7	359.0	461.6	518.2
75°	426.1	369.6	326.1	406.4	469.5
77.5°	369.6	314.3	294.6	359.0	420.8
80°	310.4	260.4	257.7	312.9	359.0
82.5°	242.0	207.8	207.8	261.7	289.3
85°	171.0	149.9	146.0	190.6	193.3
87.5°	88.1	84.2	76.3	99.9	99.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)