

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: P225772

Luminaire Tested: **22GR-LD5-36-A-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225772
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-36-A-UNV-L930-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2926.6 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

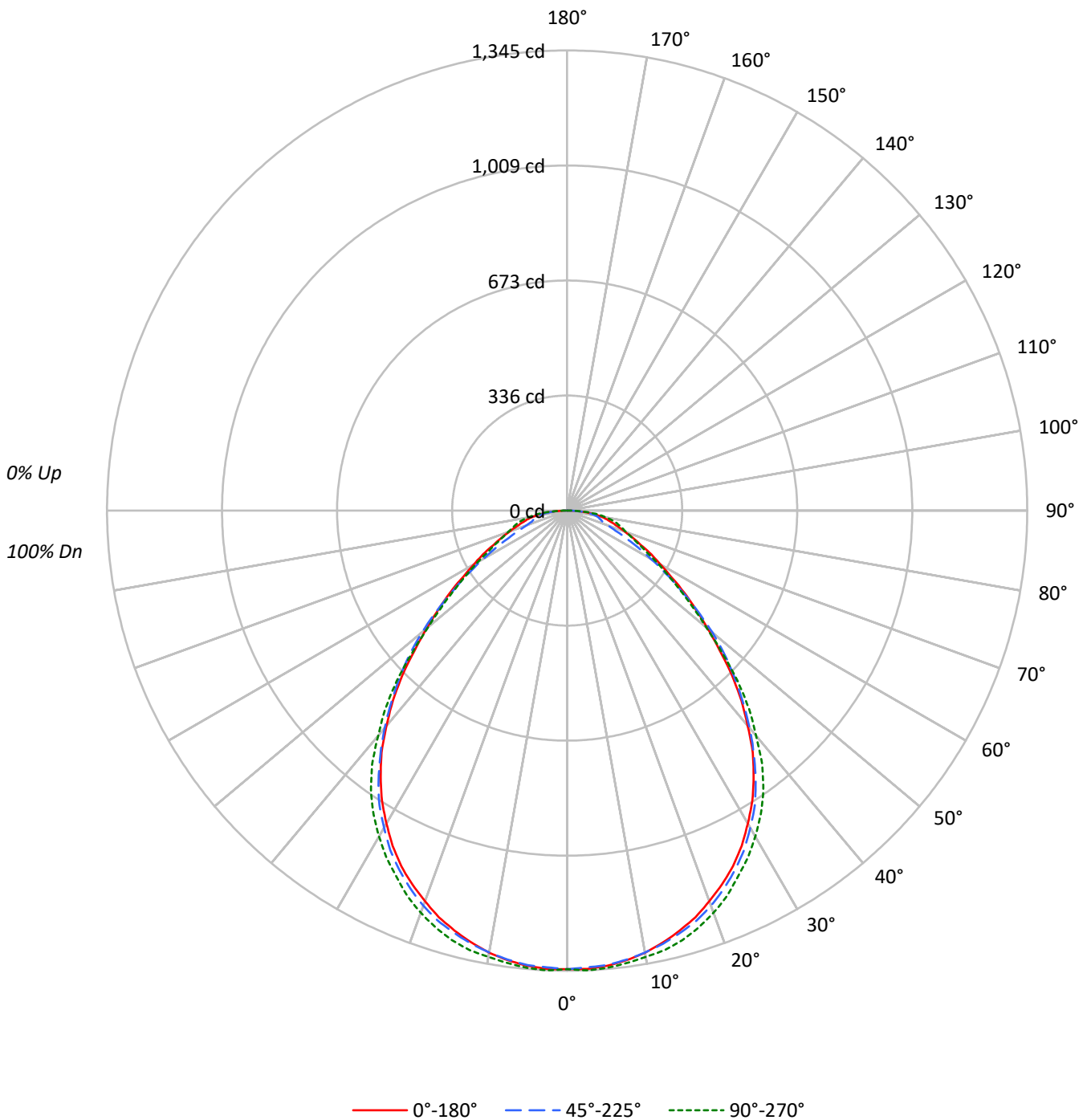
Input Watts (W): 34.56
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49					49			
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4292	4292	4292
5°	4293	4287	4313
10°	4267	4266	4307
15°	4213	4236	4310
20°	4141	4189	4264
25°	4053	4098	4173
30°	3906	3959	4067
35°	3714	3757	3908
40°	3433	3471	3593
45°	3084	3140	3189
50°	2667	2762	2640
55°	2327	2266	2236
60°	2015	1815	1937
65°	1801	1424	1739
70°	1670	1180	1715
75°	1668	1247	1904
80°	1846	1569	2147
85°	1929	1701	2429



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.8	4.3
10°-20°	361.2	12.3
20°-30°	534.3	18.3
30°-40°	602.9	20.6
40°-50°	531.5	18.2
50°-60°	364.6	12.5
60°-70°	215.1	7.4
70°-80°	134.2	4.6
80°-90°	56.0	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°	1022.3	34.9
0°-40°	1625.2	55.5
0°-60°	2521.2	86.1
0°-90°	2926.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2926.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1340	1340	1340	1340	1340	
5°	1336	1333	1334	1338	1342	127
15°	1271	1272	1278	1293	1300	358
25°	1147	1151	1160	1175	1181	527
35°	950	958	961	984	1000	592
45°	681	684	693	697	704	523
55°	417	407	406	392	400	374
65°	238	209	188	217	230	239
75°	135	121	101	141	154	145
85°	52	49	46	61	66	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1340.3	1340.3	1340.3	1340.3	1340.3
2.5°	1340.9	1337.6	1336.2	1341.6	1345.0
5°	1335.5	1332.7	1333.5	1338.2	1341.6
7.5°	1325.9	1323.9	1323.9	1330.7	1334.1
10°	1312.3	1311.7	1311.7	1319.9	1324.6
12.5°	1293.3	1294.0	1296.7	1307.6	1315.8
15°	1270.8	1272.1	1277.6	1293.3	1300.1
17.5°	1246.3	1246.3	1257.1	1269.4	1277.6
20°	1215.0	1217.0	1229.3	1242.9	1251.1
22.5°	1182.9	1186.4	1196.5	1212.2	1219.8
25°	1146.9	1151.0	1159.8	1174.8	1180.9
27.5°	1104.6	1110.1	1119.6	1130.5	1143.5
30°	1056.2	1064.4	1070.6	1085.6	1099.9
32.5°	1007.2	1014.7	1021.6	1037.2	1053.5
35°	950.1	958.2	961.0	984.1	999.7
37.5°	891.5	894.9	896.3	919.4	936.4
40°	821.3	828.1	830.2	848.5	859.4
42.5°	753.9	756.6	760.7	774.3	787.3
45°	681.0	684.5	693.3	697.4	704.2
47.5°	604.8	615.0	625.2	612.2	612.9
50°	535.3	543.5	554.3	529.8	529.8
52.5°	473.3	477.4	478.1	457.6	461.7
55°	416.8	406.6	405.9	392.3	400.4
57.5°	360.2	346.6	341.9	337.8	347.4
60°	314.6	290.1	283.3	289.5	302.4
62.5°	277.2	245.8	232.9	248.5	260.2
65°	237.7	209.1	187.9	217.2	229.5
67.5°	207.0	179.8	152.5	194.1	203.0
70°	178.4	157.4	126.0	176.4	183.2
72.5°	155.3	138.9	109.0	159.3	167.5
75°	134.8	121.2	100.8	141.0	153.9
77.5°	118.5	103.5	94.0	121.9	137.6
80°	100.1	85.1	85.1	102.2	116.4
82.5°	79.0	66.7	68.8	83.1	93.3
85°	52.5	49.0	46.3	60.6	66.1
87.5°	26.6	27.2	24.5	31.3	32.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)