

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: P225931

Luminaire Tested: **14GR-LD5-36-A-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-36-A-UNV-L950-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3434.3 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

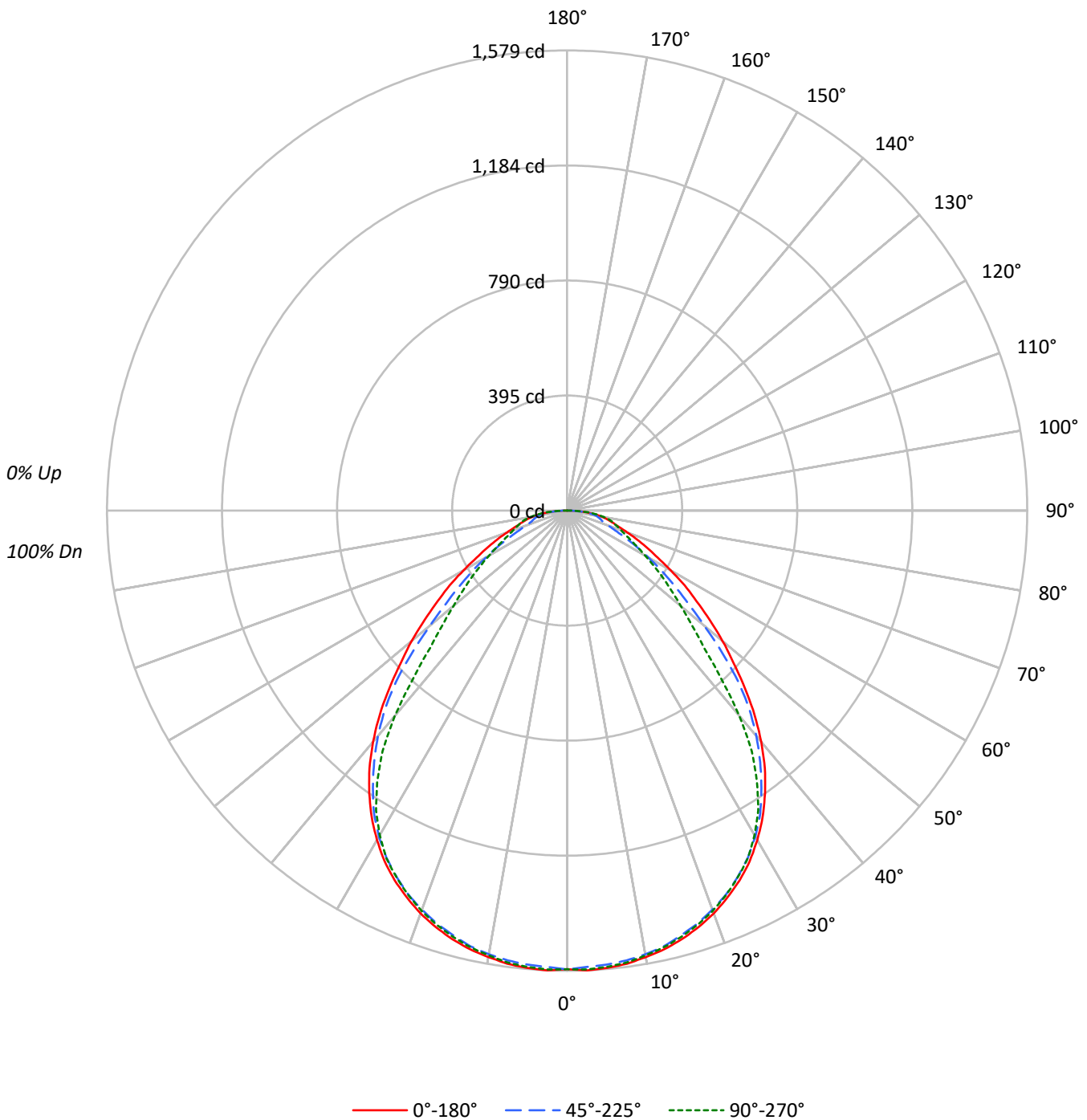
Input Watts (W): 35
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64					64			
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44					44			
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36					36			
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33					33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5303	5303	5303
5°	5329	5288	5315
10°	5322	5289	5303
15°	5312	5264	5281
20°	5274	5226	5240
25°	5205	5154	5157
30°	5077	5025	5003
35°	4869	4781	4673
40°	4557	4442	4042
45°	4117	3961	3158
50°	3650	3216	2672
55°	3186	2638	2357
60°	2763	2171	2080
65°	2423	1743	1921
70°	2161	1478	1933
75°	2108	1558	2160
80°	2338	1966	2476
85°	2436	2095	2900



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.3	4.3
10°-20°	427.7	12.5
20°-30°	639.9	18.6
30°-40°	722.3	21.0
40°-50°	612.8	17.8
50°-60°	414.6	12.1
60°-70°	247.5	7.2
70°-80°	155.0	4.5
80°-90°	65.2	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°	1216.9	35.4
0°-40°	1939.3	56.5
0°-60°	2966.6	86.4
0°-90°	3434.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3434.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1574	1574	1574	1574	1574	
5°	1575	1571	1563	1575	1571	150
15°	1523	1520	1509	1520	1514	429
25°	1400	1395	1386	1393	1387	644
35°	1184	1176	1162	1152	1136	737
45°	864	867	831	712	663	666
55°	542	517	449	402	401	489
65°	304	252	219	233	241	304
75°	162	144	120	158	166	174
85°	63	60	54	70	75	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1573.8	1573.8	1573.8	1573.8	1573.8
2.5°	1579.3	1574.6	1567.4	1576.9	1576.1
5°	1575.4	1570.6	1563.4	1574.6	1571.4
7.5°	1568.2	1564.2	1557.0	1567.4	1564.2
10°	1555.5	1552.2	1545.8	1554.6	1549.8
12.5°	1541.9	1539.4	1531.5	1539.4	1534.7
15°	1522.7	1519.5	1509.1	1519.5	1514.0
17.5°	1498.8	1494.8	1486.0	1494.8	1490.0
20°	1470.8	1466.1	1457.3	1466.1	1461.3
22.5°	1437.3	1433.3	1425.4	1433.3	1427.0
25°	1399.9	1395.1	1386.3	1392.7	1387.1
27.5°	1356.8	1350.4	1342.4	1347.3	1344.1
30°	1304.9	1297.0	1291.4	1291.4	1285.8
32.5°	1248.3	1242.7	1233.1	1227.6	1220.4
35°	1183.7	1175.7	1162.2	1151.8	1135.9
37.5°	1114.3	1104.7	1088.0	1061.7	1040.1
40°	1036.1	1024.2	1009.8	958.0	918.9
42.5°	952.4	950.0	925.3	836.7	782.5
45°	863.9	867.0	831.2	712.3	662.8
47.5°	774.5	785.7	720.3	603.8	578.3
50°	696.3	700.3	613.4	524.1	509.7
52.5°	615.8	609.4	523.2	461.0	450.6
55°	542.4	516.9	449.1	402.0	401.2
57.5°	477.8	430.7	383.7	348.5	352.5
60°	410.0	357.4	322.2	303.1	308.7
62.5°	350.2	299.9	268.8	263.3	272.8
65°	303.9	252.1	218.6	232.9	240.9
67.5°	260.1	216.1	177.9	212.2	215.4
70°	219.3	187.5	150.0	195.5	196.2
72.5°	185.8	165.9	130.0	177.1	179.5
75°	161.9	144.4	119.7	158.0	165.9
77.5°	142.0	123.7	110.8	136.4	150.0
80°	120.5	99.7	101.3	114.0	127.6
82.5°	92.5	77.4	80.5	94.1	103.7
85°	63.0	59.8	54.2	70.2	75.0
87.5°	33.5	31.9	27.9	39.9	37.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)