

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: P475465

Luminaire Tested: **14CZ2-48HE-HRP-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475465
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-48HE-HRP-UNV-L835-CD1-U
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY,SMOOTH LENS W/ HRP INSERT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

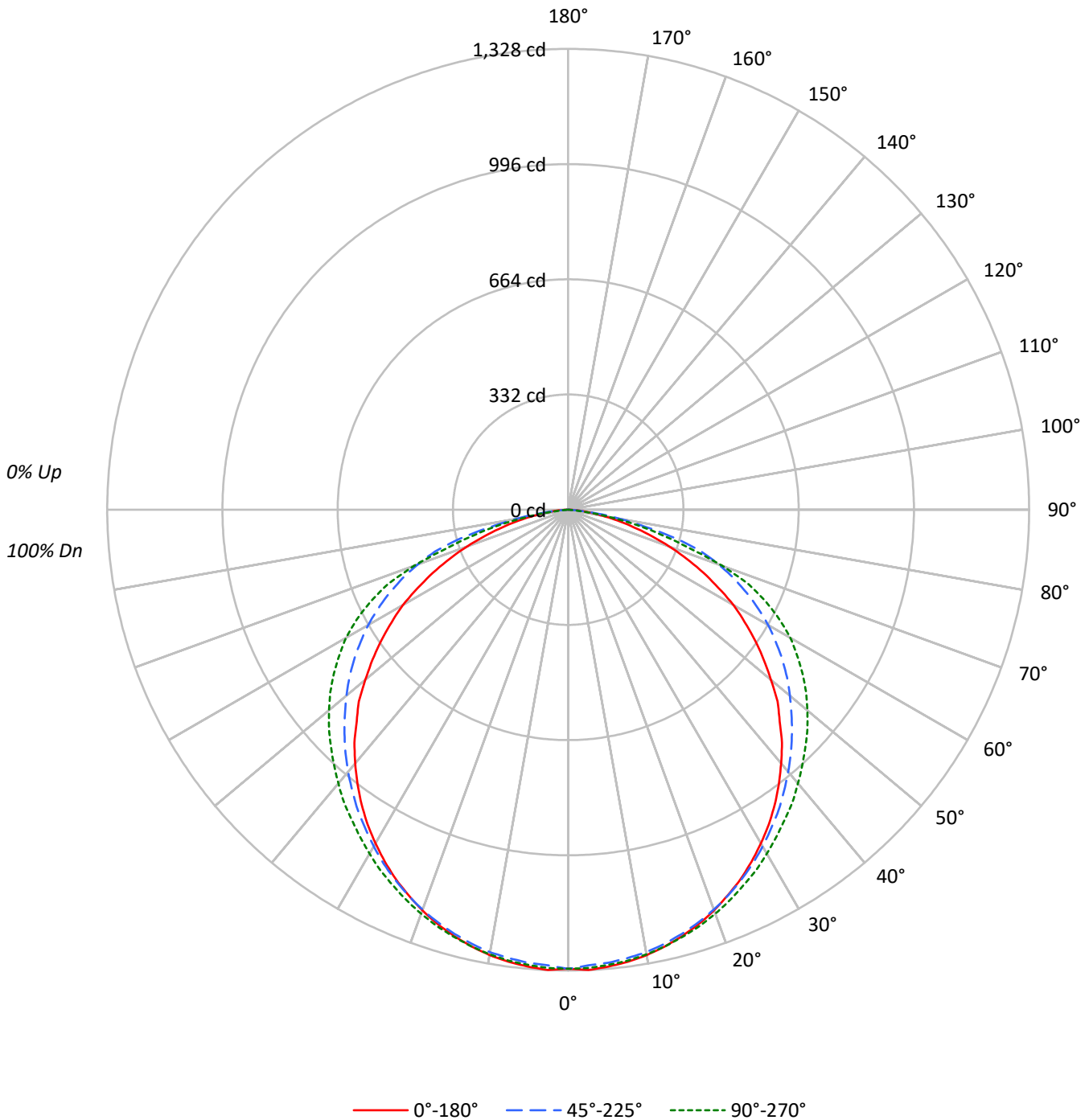
Lumens per Lamp: N/A
Luminaire Lumens: 3952.5 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35.7
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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3560	3560	3560
5°	3570	3541	3557
10°	3562	3538	3555
15°	3543	3526	3550
20°	3519	3512	3547
25°	3489	3497	3547
30°	3451	3481	3557
35°	3408	3472	3576
40°	3352	3464	3618
45°	3279	3469	3678
50°	3193	3489	3765
55°	3086	3533	3865
60°	2962	3580	3980
65°	2735	3613	4002
70°	2439	3629	3707
75°	2043	3362	2880
80°	1551	2363	1891
85°	1093	827	262



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.2	3.2
10°-20°	358.8	9.1
20°-30°	545.4	13.8
30°-40°	664.0	16.8
40°-50°	705.4	17.8
50°-60°	667.3	16.9
60°-70°	540.6	13.7
70°-80°	296.4	7.5
80°-90°	49.5	1.3
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°	1029.3	26.0
0°-40°	1693.3	42.8
0°-60°	3066.0	77.6
0°-90°	3952.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3952.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1323	1323	1323	1323	1323	
5°	1322	1319	1311	1319	1317	126
15°	1272	1269	1266	1275	1274	359
25°	1175	1175	1178	1194	1195	541
35°	1037	1041	1057	1082	1089	649
45°	862	875	912	953	966	666
55°	658	687	753	808	824	588
65°	430	478	568	618	628	425
75°	196	271	323	286	277	210
85°	35	46	27	13	8	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1322.9	1322.9	1322.9	1322.9	1322.9
2.5°	1327.8	1322.9	1314.3	1322.9	1321.7
5°	1321.7	1319.2	1310.7	1319.2	1316.8
7.5°	1314.3	1311.9	1303.4	1313.1	1310.7
10°	1303.4	1300.9	1294.8	1303.4	1300.9
12.5°	1288.7	1287.5	1281.4	1291.2	1288.7
15°	1271.6	1269.2	1265.5	1275.3	1274.1
17.5°	1252.1	1249.7	1247.2	1259.4	1258.2
20°	1228.9	1227.7	1226.5	1239.9	1238.7
22.5°	1202.1	1202.1	1203.3	1217.9	1217.9
25°	1175.2	1175.2	1177.7	1193.5	1194.7
27.5°	1143.5	1145.9	1150.8	1167.9	1171.6
30°	1110.5	1113.0	1120.3	1139.8	1144.7
32.5°	1075.2	1078.8	1088.6	1111.8	1116.6
35°	1037.3	1041.0	1056.8	1082.5	1088.6
37.5°	997.0	1003.1	1021.5	1050.7	1061.7
40°	954.3	964.1	986.1	1017.8	1030.0
42.5°	911.6	920.2	949.5	986.1	998.3
45°	861.6	875.0	911.6	953.1	966.5
47.5°	817.7	829.9	872.6	918.9	934.8
50°	762.7	781.0	833.5	884.8	899.4
52.5°	710.3	734.7	794.5	846.9	864.0
55°	657.8	687.1	753.0	807.9	823.8
57.5°	602.9	634.6	709.0	765.2	782.3
60°	550.4	584.6	665.1	722.5	739.5
62.5°	488.2	530.9	617.5	672.4	687.1
65°	429.6	478.4	567.5	617.5	628.5
67.5°	369.8	427.1	516.2	560.2	563.8
70°	310.0	374.7	461.3	488.2	471.1
72.5°	251.4	323.4	402.7	380.8	361.2
75°	196.5	270.9	323.4	285.6	277.0
77.5°	145.2	222.1	225.8	207.5	201.4
80°	100.1	172.1	152.5	131.8	122.0
82.5°	64.7	106.2	84.2	62.2	56.1
85°	35.4	46.4	26.8	13.4	8.5
87.5°	13.4	8.5	3.7	3.7	2.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)