

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: P277483

Luminaire Tested: **22CZ2-44HE-S-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277483
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44HE-S-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3935.0 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

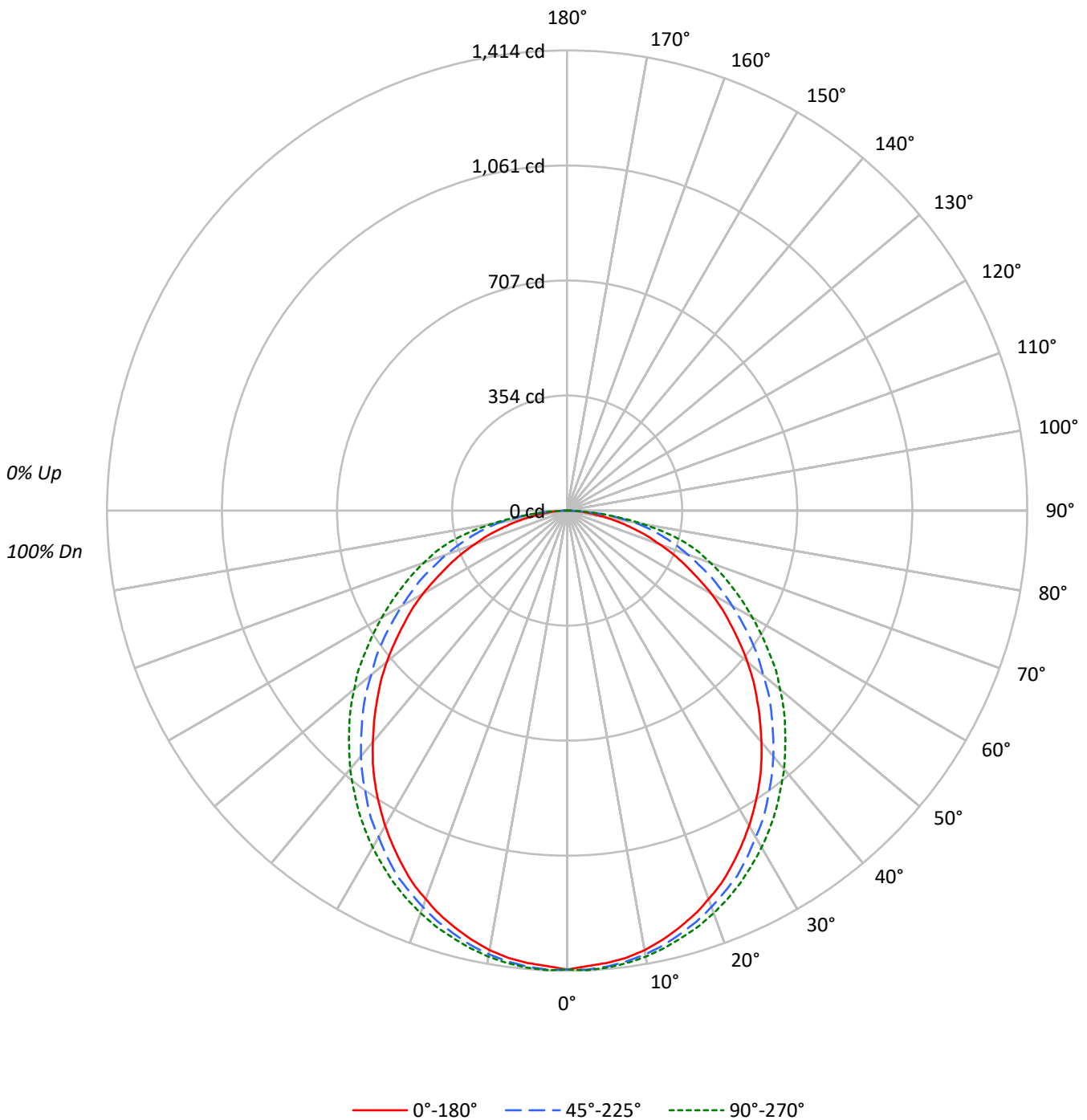
Input Watts (W): 35.247
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27					27			
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3794	3794	3794
5°	3769	3799	3809
10°	3748	3783	3803
15°	3698	3749	3785
20°	3638	3712	3770
25°	3565	3674	3745
30°	3474	3600	3714
35°	3377	3534	3679
40°	3263	3463	3644
45°	3144	3382	3605
50°	3028	3290	3574
55°	2886	3230	3549
60°	2757	3152	3538
65°	2572	3133	3577
70°	2369	3105	3684
75°	2138	3149	3875
80°	1849	3243	3642
85°	1531	2720	2720



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.3	3.4
10°-20°	379.5	9.6
20°-30°	567.8	14.4
30°-40°	672.4	17.1
40°-50°	685.3	17.4
50°-60°	614.2	15.6
60°-70°	480.8	12.2
70°-80°	310.0	7.9
80°-90°	91.6	2.3
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°	1080.6	27.5
0°-40°	1753.0	44.5
0°-60°	3052.5	77.6
0°-90°	3935.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3935.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1410	1410	1410	1410	1410	
5°	1395	1399	1406	1408	1410	132
15°	1327	1335	1346	1357	1359	374
25°	1201	1212	1238	1254	1261	553
35°	1028	1041	1076	1109	1120	643
45°	826	845	889	934	947	638
55°	615	635	688	736	756	551
65°	404	428	492	540	562	401
75°	206	237	303	354	373	220
85°	50	68	88	88	88	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1410.0	1410.0	1410.0	1410.0	1410.0
2.5°	1400.9	1404.5	1411.9	1413.7	1413.7
5°	1395.3	1399.0	1406.4	1408.2	1410.0
7.5°	1386.2	1388.0	1397.2	1400.9	1402.7
10°	1371.5	1375.1	1384.3	1389.8	1391.7
12.5°	1351.3	1356.8	1367.8	1375.1	1377.0
15°	1327.4	1334.8	1345.8	1356.8	1358.6
17.5°	1301.7	1309.1	1323.7	1336.6	1340.3
20°	1270.5	1279.7	1296.2	1310.9	1316.4
22.5°	1239.3	1246.6	1266.8	1285.2	1290.7
25°	1200.7	1211.7	1237.5	1254.0	1261.3
27.5°	1160.3	1173.2	1198.9	1220.9	1228.3
30°	1118.1	1131.0	1158.5	1186.0	1195.2
32.5°	1074.0	1088.7	1121.8	1149.3	1158.5
35°	1028.1	1041.0	1075.9	1108.9	1119.9
37.5°	980.4	991.4	1031.8	1066.7	1077.7
40°	929.0	943.7	985.9	1026.3	1037.3
42.5°	877.6	894.1	936.4	980.4	991.4
45°	826.2	844.6	888.6	934.5	947.4
47.5°	776.6	791.3	840.9	884.9	903.3
50°	723.4	738.1	785.8	835.4	853.7
52.5°	668.3	688.5	739.9	787.6	809.7
55°	615.1	635.2	688.5	736.2	756.4
57.5°	565.5	582.0	637.1	686.7	706.9
60°	512.2	526.9	585.7	638.9	657.3
62.5°	455.3	477.4	537.9	587.5	609.5
65°	403.9	427.8	492.0	539.8	561.8
67.5°	356.2	378.2	440.6	492.0	515.9
70°	301.1	330.5	394.7	446.1	468.2
72.5°	257.0	282.7	348.8	400.2	424.1
75°	205.6	236.8	302.9	354.3	372.7
77.5°	163.4	194.6	257.0	297.4	306.6
80°	119.3	150.6	209.3	229.5	235.0
82.5°	80.8	110.2	150.6	156.1	157.9
85°	49.6	67.9	88.1	88.1	88.1
87.5°	23.9	27.5	31.2	29.4	29.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)