

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: P276922

Luminaire Tested: **24CZ2-50HE-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-50HE-RDP-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3248.7 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

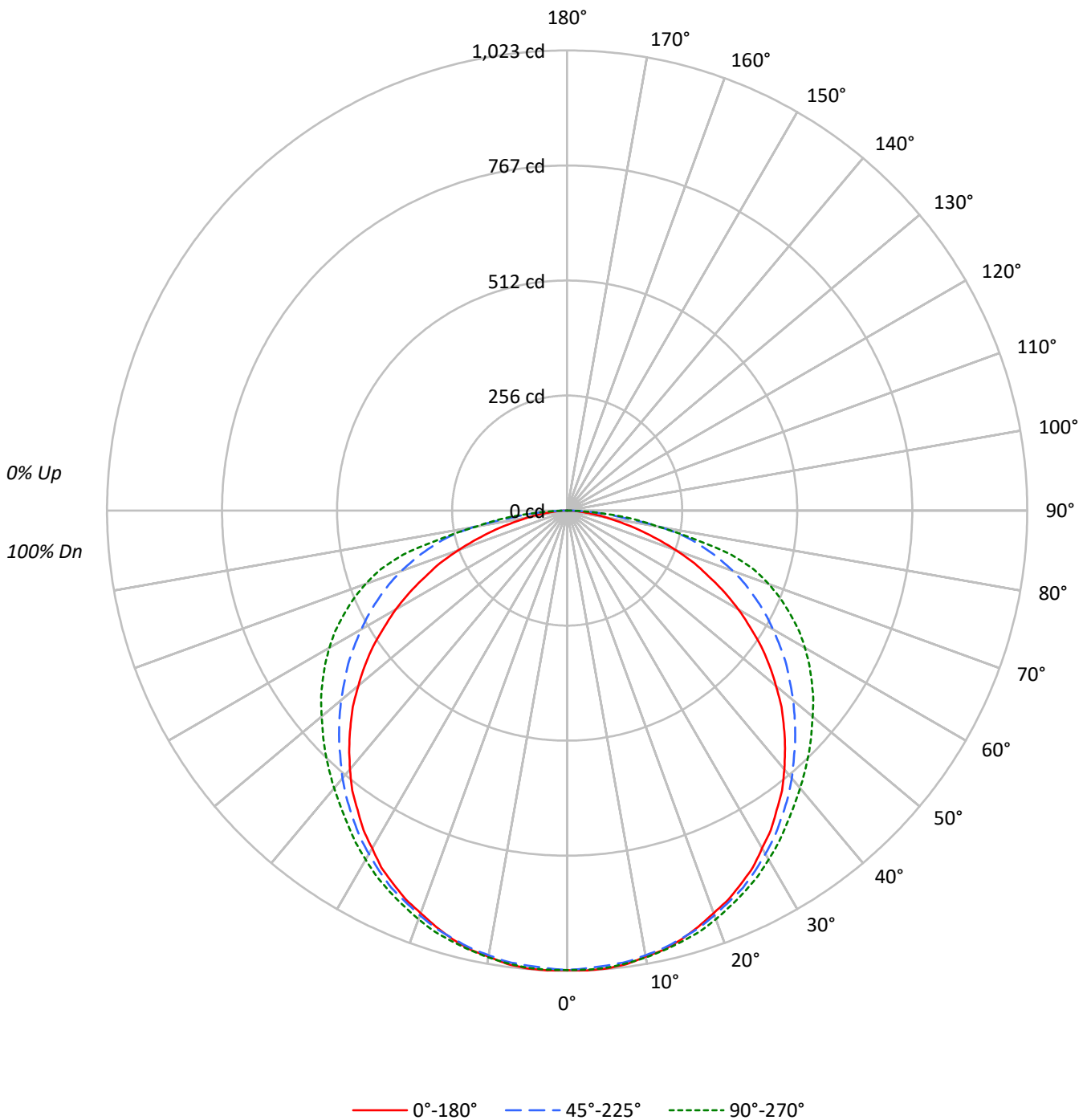
Input Watts (W): 36.363
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1375	1375	1375
5°	1380	1371	1378
10°	1376	1372	1378
15°	1374	1372	1380
20°	1364	1371	1384
25°	1359	1373	1387
30°	1347	1369	1392
35°	1334	1366	1397
40°	1319	1364	1415
45°	1297	1365	1447
50°	1268	1373	1491
55°	1236	1395	1557
60°	1184	1422	1643
65°	1108	1472	1744
70°	1008	1541	1876
75°	855	1625	1960
80°	674	1636	1585
85°	497	1244	1392



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	3.0
10°-20°	278.9	8.6
20°-30°	426.5	13.1
30°-40°	521.4	16.0
40°-50°	555.7	17.1
50°-60°	531.3	16.4
60°-70°	450.1	13.9
70°-80°	302.5	9.3
80°-90°	85.3	2.6
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°	802.3	24.7
0°-40°	1323.7	40.7
0°-60°	2410.7	74.2
0°-90°	3248.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3248.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1022	1022	1022	1022	1022	
5°	1022	1020	1015	1020	1020	97
15°	986	986	985	993	991	278
25°	915	918	925	933	935	422
35°	812	819	832	848	851	509
45°	682	693	717	748	761	526
55°	527	546	595	641	664	469
65°	348	384	462	524	548	346
75°	164	224	313	366	377	176
85°	32	66	81	87	90	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1021.6	1021.6	1021.6	1021.6	1021.6
2.5°	1023.2	1023.2	1018.4	1021.6	1021.6
5°	1021.6	1020.0	1015.2	1020.0	1020.0
7.5°	1016.8	1015.2	1011.9	1016.8	1015.2
10°	1007.1	1007.1	1003.9	1008.7	1008.7
12.5°	999.1	997.4	995.8	1002.3	1000.7
15°	986.2	986.2	984.6	992.6	991.0
17.5°	970.0	971.7	973.3	979.7	981.3
20°	952.3	955.5	957.2	966.8	966.8
22.5°	936.2	937.8	941.0	950.7	950.7
25°	915.3	918.5	924.9	933.0	934.6
27.5°	894.3	895.9	904.0	915.3	916.9
30°	866.9	871.8	881.4	894.3	895.9
32.5°	842.7	847.6	858.9	871.8	875.0
35°	812.1	818.6	831.5	847.6	850.8
37.5°	784.7	789.6	805.7	823.4	828.2
40°	750.9	760.6	776.7	797.6	805.7
42.5°	717.1	726.7	746.1	773.5	783.1
45°	681.6	692.9	717.1	747.7	760.6
47.5°	646.2	659.1	686.4	721.9	736.4
50°	605.9	622.0	655.8	696.1	712.2
52.5°	567.2	586.5	623.6	668.7	689.7
55°	526.9	546.3	594.6	641.3	663.9
57.5°	481.8	507.6	560.8	613.9	638.1
60°	439.9	464.1	528.5	586.5	610.7
62.5°	394.8	427.0	496.3	557.5	581.7
65°	348.1	383.5	462.5	523.7	547.9
67.5°	306.2	344.8	428.6	489.9	514.0
70°	256.2	304.6	391.6	452.8	477.0
72.5°	209.5	262.7	352.9	412.5	435.1
75°	164.4	224.0	312.6	365.8	377.1
77.5°	122.5	185.3	270.7	293.3	285.2
80°	87.0	148.2	211.1	199.8	204.6
82.5°	56.4	112.8	130.5	148.2	153.1
85°	32.2	66.1	80.6	87.0	90.2
87.5°	14.5	24.2	32.2	32.2	30.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)