

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: P277060

Luminaire Tested: **24CZ2-50HE-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277060
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-L92765-W2A1-U-5700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3014.5 lumens
Efficiency: N/A
Efficacy: 81.9 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

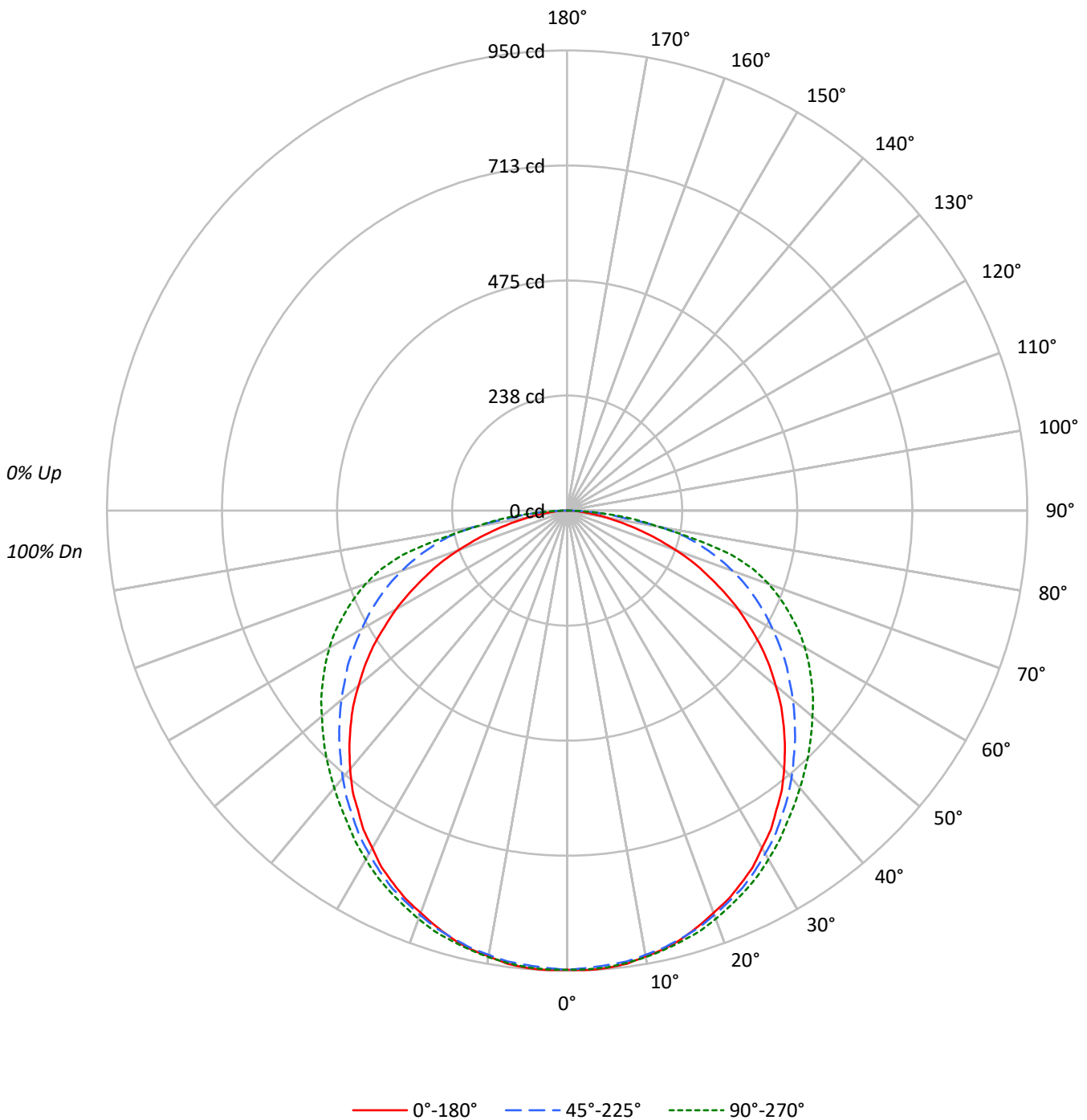
Input Watts (W): 36.828
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1276	1276	1276
5°	1280	1272	1278
10°	1277	1273	1279
15°	1275	1273	1281
20°	1265	1272	1285
25°	1261	1274	1287
30°	1250	1271	1292
35°	1238	1267	1297
40°	1224	1266	1313
45°	1204	1266	1343
50°	1177	1274	1383
55°	1147	1294	1445
60°	1098	1320	1525
65°	1028	1366	1619
70°	935	1429	1741
75°	793	1508	1819
80°	625	1518	1471
85°	462	1155	1292



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.9	3.0
10°-20°	258.8	8.6
20°-30°	395.8	13.1
30°-40°	483.8	16.0
40°-50°	515.7	17.1
50°-60°	493.0	16.4
60°-70°	417.7	13.9
70°-80°	280.7	9.3
80°-90°	79.2	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°	744.5	24.7
0°-40°	1228.3	40.7
0°-60°	2237.0	74.2
0°-90°	3014.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3014.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	948	946	942	946	946	90
15°	915	915	914	921	920	258
25°	849	852	858	866	867	391
35°	754	760	772	786	790	472
45°	632	643	665	694	706	488
55°	489	507	552	595	616	435
65°	323	356	429	486	508	321
75°	152	208	290	339	350	163
85°	30	61	75	81	84	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	948.0	948.0	948.0	948.0	948.0
2.5°	949.5	949.5	945.0	948.0	948.0
5°	948.0	946.5	942.0	946.5	946.5
7.5°	943.5	942.0	939.0	943.5	942.0
10°	934.5	934.5	931.5	936.0	936.0
12.5°	927.0	925.6	924.1	930.0	928.5
15°	915.1	915.1	913.6	921.1	919.6
17.5°	900.1	901.6	903.1	909.1	910.6
20°	883.7	886.7	888.2	897.1	897.1
22.5°	868.7	870.2	873.2	882.2	882.2
25°	849.3	852.3	858.3	865.7	867.2
27.5°	829.9	831.4	838.8	849.3	850.8
30°	804.4	808.9	817.9	829.9	831.4
32.5°	782.0	786.5	797.0	808.9	811.9
35°	753.6	759.6	771.5	786.5	789.5
37.5°	728.2	732.7	747.6	764.1	768.6
40°	696.8	705.8	720.7	740.1	747.6
42.5°	665.4	674.4	692.3	717.7	726.7
45°	632.5	643.0	665.4	693.8	705.8
47.5°	599.6	611.6	637.0	669.9	683.3
50°	562.2	577.2	608.6	645.9	660.9
52.5°	526.3	544.3	578.7	620.5	640.0
55°	488.9	506.9	551.7	595.1	616.0
57.5°	447.1	471.0	520.3	569.7	592.1
60°	408.2	430.6	490.4	544.3	566.7
62.5°	366.3	396.2	460.5	517.4	539.8
65°	323.0	355.9	429.1	486.0	508.4
67.5°	284.1	320.0	397.7	454.6	477.0
70°	237.7	282.6	363.3	420.2	442.6
72.5°	194.4	243.7	327.5	382.8	403.7
75°	152.5	207.8	290.1	339.4	349.9
77.5°	113.6	172.0	251.2	272.1	264.7
80°	80.7	137.6	195.9	185.4	189.9
82.5°	52.3	104.7	121.1	137.6	142.0
85°	29.9	61.3	74.8	80.7	83.7
87.5°	13.5	22.4	29.9	29.9	28.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)