

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: P277058

Luminaire Tested: **24CZ2-50HE-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277058
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-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2956.0 lumens
Efficiency: N/A
Efficacy: 80.9 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

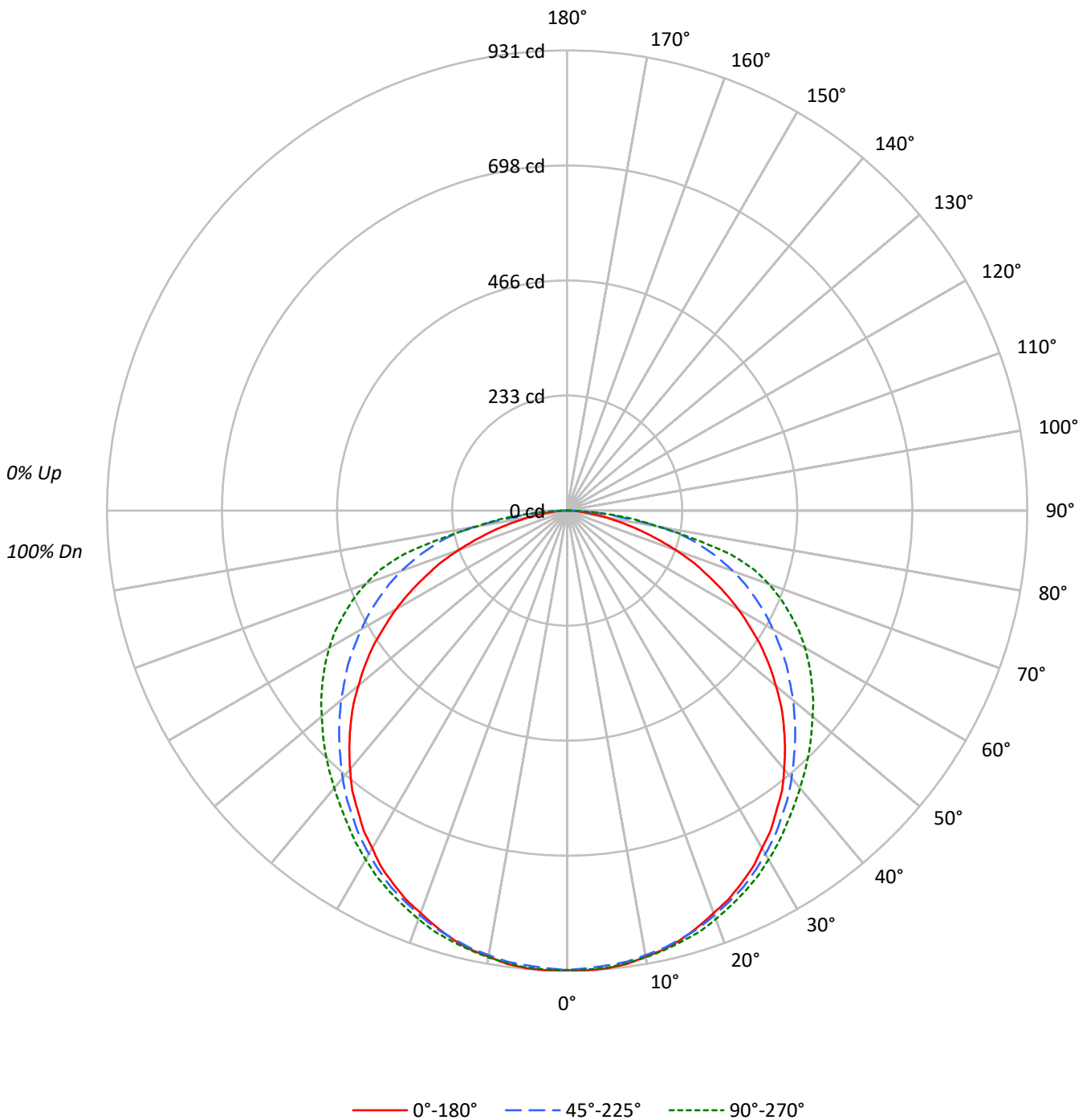
Input Watts (W): 36.549
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1251	1251	1251
5°	1256	1248	1254
10°	1252	1248	1254
15°	1250	1248	1256
20°	1241	1247	1260
25°	1236	1249	1262
30°	1226	1246	1267
35°	1214	1243	1272
40°	1200	1241	1288
45°	1180	1242	1317
50°	1154	1249	1357
55°	1125	1269	1417
60°	1077	1294	1495
65°	1008	1340	1587
70°	917	1402	1707
75°	778	1478	1784
80°	614	1488	1443
85°	452	1132	1267



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	3.0
10°-20°	253.8	8.6
20°-30°	388.1	13.1
30°-40°	474.4	16.0
40°-50°	505.6	17.1
50°-60°	483.5	16.4
60°-70°	409.5	13.9
70°-80°	275.2	9.3
80°-90°	77.6	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°	730.0	24.7
0°-40°	1204.4	40.7
0°-60°	2193.5	74.2
0°-90°	2956.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2956.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	930	930	930	930	930	
5°	930	928	924	928	928	88
15°	897	897	896	903	902	253
25°	833	836	842	849	850	384
35°	739	745	757	771	774	463
45°	620	630	652	680	692	478
55°	479	497	541	584	604	427
65°	317	349	421	476	498	314
75°	150	204	284	333	343	160
85°	29	60	73	79	82	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	929.6	929.6	929.6	929.6	929.6
2.5°	931.0	931.0	926.6	929.6	929.6
5°	929.6	928.1	923.7	928.1	928.1
7.5°	925.2	923.7	920.8	925.2	923.7
10°	916.4	916.4	913.4	917.8	917.8
12.5°	909.0	907.6	906.1	912.0	910.5
15°	897.3	897.3	895.9	903.2	901.7
17.5°	882.7	884.1	885.6	891.5	892.9
20°	866.5	869.5	870.9	879.7	879.7
22.5°	851.9	853.3	856.3	865.1	865.1
25°	832.8	835.7	841.6	848.9	850.4
27.5°	813.7	815.2	822.5	832.8	834.3
30°	788.8	793.2	802.0	813.7	815.2
32.5°	766.8	771.2	781.5	793.2	796.2
35°	739.0	744.8	756.6	771.2	774.2
37.5°	714.0	718.4	733.1	749.2	753.6
40°	683.3	692.0	706.7	725.8	733.1
42.5°	652.5	661.3	678.9	703.8	712.6
45°	620.2	630.5	652.5	680.3	692.0
47.5°	587.9	599.7	624.6	656.9	670.1
50°	551.3	566.0	596.7	633.4	648.1
52.5°	516.1	533.7	567.4	608.5	627.5
55°	479.4	497.0	541.0	583.6	604.1
57.5°	438.4	461.9	510.2	558.6	580.6
60°	400.3	422.3	480.9	533.7	555.7
62.5°	359.2	388.5	451.6	507.3	529.3
65°	316.7	349.0	420.8	476.5	498.5
67.5°	278.6	313.8	390.0	445.7	467.7
70°	233.1	277.1	356.3	412.0	434.0
72.5°	190.6	239.0	321.1	375.3	395.9
75°	149.6	203.8	284.4	332.8	343.1
77.5°	111.4	168.6	246.3	266.8	259.5
80°	79.2	134.9	192.1	181.8	186.2
82.5°	51.3	102.6	118.8	134.9	139.3
85°	29.3	60.1	73.3	79.2	82.1
87.5°	13.2	22.0	29.3	29.3	27.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)