

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: P260838

Luminaire Tested: **24CZ-LD5-30-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-30-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2502.0 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

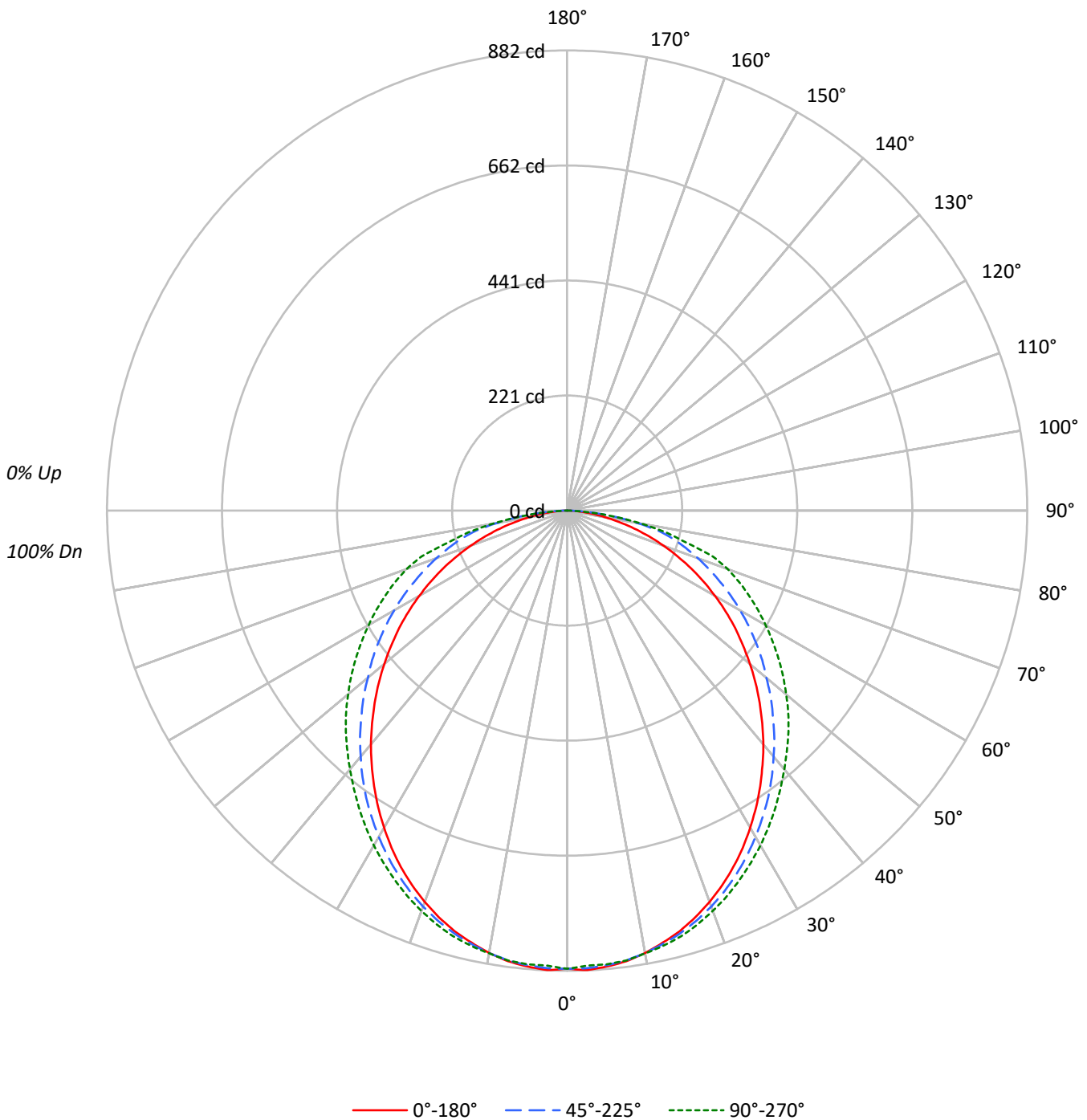
Input Watts (W): 19.437
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	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	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1181	1181	1181
5°	1185	1181	1179
10°	1176	1176	1177
15°	1162	1168	1177
20°	1143	1157	1169
25°	1119	1141	1160
30°	1090	1122	1151
35°	1060	1103	1143
40°	1028	1082	1137
45°	993	1061	1141
50°	958	1044	1148
55°	922	1037	1160
60°	880	1030	1183
65°	834	1031	1222
70°	772	1048	1287
75°	690	1095	1225
80°	577	1049	1122
85°	437	807	767



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	3.3
10°-20°	236.2	9.4
20°-30°	353.0	14.1
30°-40°	418.8	16.7
40°-50°	431.1	17.2
50°-60°	395.5	15.8
60°-70°	319.7	12.8
70°-80°	207.5	8.3
80°-90°	57.2	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°	672.2	26.9
0°-40°	1091.0	43.6
0°-60°	1917.5	76.6
0°-90°	2502.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2502.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	878	878	878	878	878	
5°	877	871	875	874	873	83
15°	834	831	839	842	845	235
25°	754	755	768	775	781	347
35°	645	650	672	686	696	403
45°	522	530	558	584	600	403
55°	393	405	442	478	494	351
65°	262	278	324	367	384	259
75°	133	158	211	236	236	141
85°	28	48	52	50	50	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	878.1	878.1	878.1	878.1	878.1
2.5°	881.5	874.6	878.1	877.2	872.9
5°	877.2	871.2	874.6	873.8	872.9
7.5°	871.2	865.2	869.5	868.6	869.5
10°	860.9	855.8	860.9	861.8	861.8
12.5°	848.1	843.8	850.7	852.4	854.1
15°	834.4	831.0	838.7	842.1	844.7
17.5°	817.2	814.7	824.1	828.4	831.8
20°	798.4	797.5	807.8	812.1	816.4
22.5°	777.0	777.0	789.0	794.1	800.1
25°	753.9	754.7	768.4	775.3	781.3
27.5°	729.0	729.9	746.1	754.7	761.6
30°	701.6	705.0	722.2	733.3	741.0
32.5°	674.2	678.5	697.3	710.2	718.7
35°	645.1	650.2	671.6	686.2	695.6
37.5°	615.1	621.1	644.2	660.5	671.6
40°	585.1	591.9	615.9	634.8	647.6
42.5°	553.4	561.1	587.7	609.9	623.6
45°	521.7	530.3	557.7	584.2	599.7
47.5°	490.0	500.3	529.4	558.5	574.8
50°	457.5	467.7	498.6	532.0	548.3
52.5°	424.9	436.9	471.2	505.4	521.7
55°	393.2	405.2	442.0	478.0	494.3
57.5°	360.7	372.6	412.9	450.6	466.9
60°	327.2	340.9	382.9	421.5	439.5
62.5°	294.7	309.3	353.8	394.9	412.1
65°	262.1	277.6	323.8	366.6	383.8
67.5°	228.7	246.7	294.7	338.4	356.4
70°	196.2	215.9	266.4	310.1	327.2
72.5°	164.5	185.9	238.2	282.7	293.0
75°	132.8	157.6	210.7	235.6	235.6
77.5°	102.8	130.2	179.9	189.3	194.5
80°	74.5	104.5	135.4	146.5	144.8
82.5°	49.7	79.7	96.8	96.8	94.2
85°	28.3	48.0	52.3	50.5	49.7
87.5°	12.0	18.0	16.3	12.8	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)