

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: P260870

Luminaire Tested: **24CZ-LD5-45-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260870
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-LD5-45-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4210.0 lumens
Efficiency: N/A
Efficacy: 130.5 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

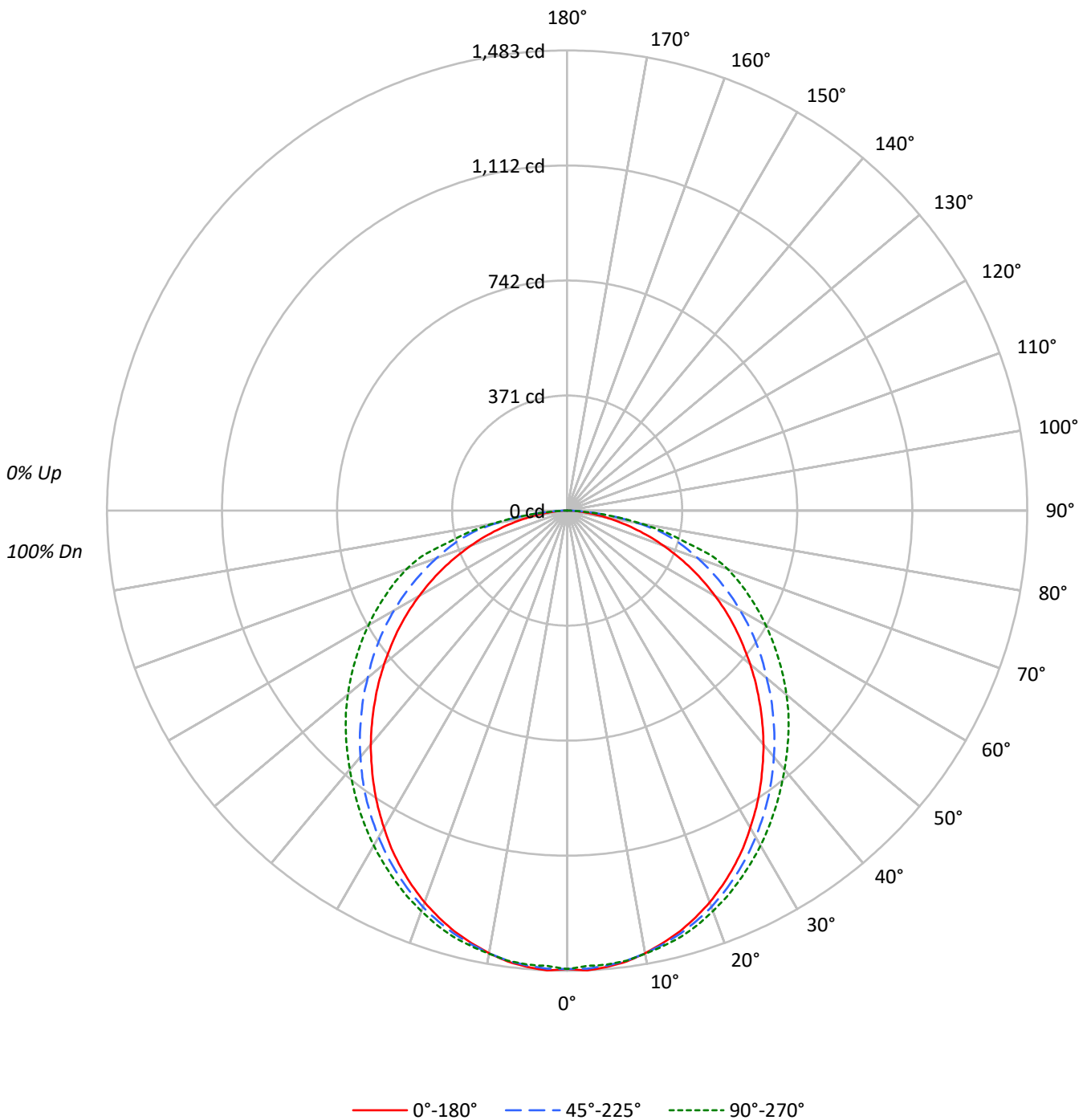
Input Watts (W): 32.271
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1988	1988	1988
5°	1994	1988	1984
10°	1979	1979	1981
15°	1956	1966	1980
20°	1924	1946	1967
25°	1883	1920	1952
30°	1834	1888	1937
35°	1783	1856	1923
40°	1729	1820	1914
45°	1670	1786	1920
50°	1611	1756	1931
55°	1552	1745	1951
60°	1482	1734	1990
65°	1404	1735	2056
70°	1299	1764	2166
75°	1161	1843	2061
80°	972	1764	1888
85°	735	1357	1291



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.6	3.3
10°-20°	397.4	9.4
20°-30°	594.0	14.1
30°-40°	704.7	16.7
40°-50°	725.3	17.2
50°-60°	665.4	15.8
60°-70°	538.0	12.8
70°-80°	349.2	8.3
80°-90°	96.3	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°	1131.0	26.9
0°-40°	1835.8	43.6
0°-60°	3226.5	76.6
0°-90°	4210.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4210.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1478	1478	1478	1478	1478	
5°	1476	1466	1472	1470	1469	140
15°	1404	1398	1411	1417	1421	395
25°	1268	1270	1293	1304	1315	584
35°	1085	1094	1130	1155	1170	679
45°	878	892	938	983	1009	677
55°	662	682	744	804	832	591
65°	441	467	545	617	646	436
75°	223	265	355	396	396	237
85°	48	81	88	85	84	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1477.5	1477.5	1477.5	1477.5	1477.5
2.5°	1483.3	1471.7	1477.5	1476.0	1468.8
5°	1476.0	1466.0	1471.7	1470.3	1468.8
7.5°	1466.0	1455.9	1463.1	1461.6	1463.1
10°	1448.7	1440.0	1448.7	1450.1	1450.1
12.5°	1427.0	1419.8	1431.4	1434.2	1437.1
15°	1404.0	1398.2	1411.2	1417.0	1421.3
17.5°	1375.1	1370.8	1386.7	1393.9	1399.7
20°	1343.4	1342.0	1359.3	1366.5	1373.7
22.5°	1307.4	1307.4	1327.6	1336.2	1346.3
25°	1268.5	1269.9	1293.0	1304.5	1314.6
27.5°	1226.7	1228.1	1255.5	1269.9	1281.5
30°	1180.6	1186.3	1215.1	1233.9	1246.9
32.5°	1134.4	1141.6	1173.3	1195.0	1209.4
35°	1085.4	1094.1	1130.1	1154.6	1170.5
37.5°	1035.0	1045.1	1084.0	1111.4	1130.1
40°	984.5	996.0	1036.4	1068.1	1089.7
42.5°	931.2	944.2	988.8	1026.3	1049.4
45°	877.8	892.3	938.4	983.1	1009.0
47.5°	824.5	841.8	890.8	939.8	967.2
50°	769.7	787.0	838.9	895.1	922.5
52.5°	715.0	735.1	792.8	850.5	877.8
55°	661.6	681.8	743.8	804.3	831.7
57.5°	606.9	627.0	694.8	758.2	785.6
60°	550.6	573.7	644.3	709.2	739.5
62.5°	495.9	520.4	595.3	664.5	693.3
65°	441.1	467.0	544.9	616.9	645.8
67.5°	384.9	415.1	495.9	569.4	599.6
70°	330.1	363.2	448.3	521.8	550.6
72.5°	276.8	312.8	400.7	475.7	493.0
75°	223.4	265.2	354.6	396.4	396.4
77.5°	173.0	219.1	302.7	318.6	327.2
80°	125.4	175.9	227.7	246.5	243.6
82.5°	83.6	134.1	162.9	162.9	158.6
85°	47.6	80.7	87.9	85.0	83.6
87.5°	20.2	30.3	27.4	21.6	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)