

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: P260772

Luminaire Tested: **24CZ-LD5-65-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260772
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-LD5-65-UNV-L82765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6814.0 lumens
Efficiency: N/A
Efficacy: 135.4 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

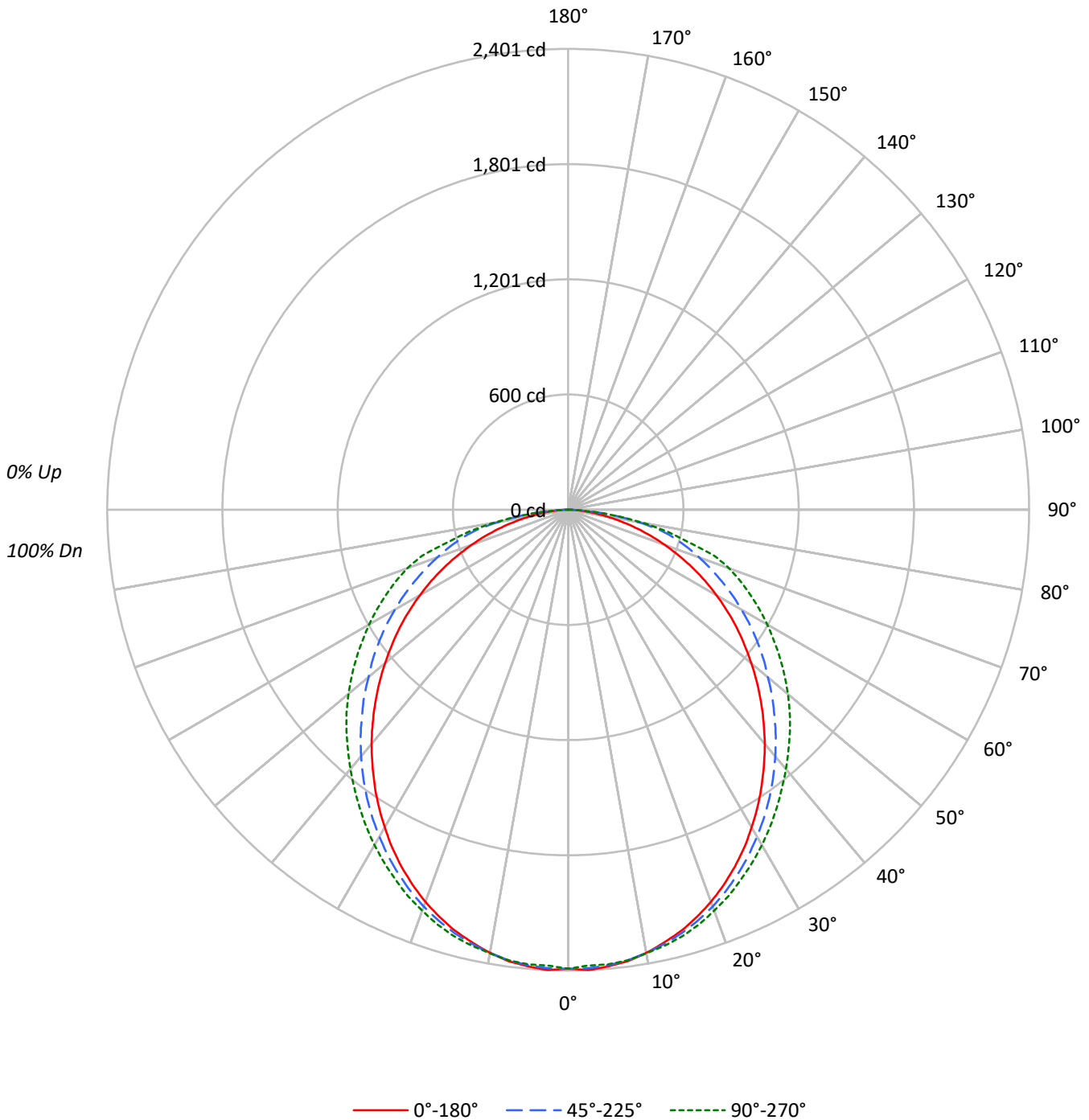
Input Watts (W): 50.313
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32					32			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3218	3218	3218
5°	3227	3217	3211
10°	3203	3203	3207
15°	3165	3182	3204
20°	3113	3150	3184
25°	3048	3107	3159
30°	2969	3056	3135
35°	2886	3004	3112
40°	2799	2946	3098
45°	2704	2890	3107
50°	2608	2842	3125
55°	2512	2824	3158
60°	2398	2806	3221
65°	2273	2808	3328
70°	2102	2854	3506
75°	1880	2983	3335
80°	1573	2856	3055
85°	1189	2197	2089



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.0	3.3
10°-20°	643.2	9.4
20°-30°	961.5	14.1
30°-40°	1140.6	16.7
40°-50°	1174.0	17.2
50°-60°	1077.0	15.8
60°-70°	870.8	12.8
70°-80°	565.1	8.3
80°-90°	155.8	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°	1830.6	26.9
0°-40°	2971.2	43.6
0°-60°	5222.2	76.6
0°-90°	6814.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6814.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2391	2391	2391	2391	2391	
5°	2389	2373	2382	2380	2377	227
15°	2272	2263	2284	2293	2300	640
25°	2053	2055	2093	2111	2128	945
35°	1757	1771	1829	1869	1894	1099
45°	1421	1444	1519	1591	1633	1096
55°	1071	1104	1204	1302	1346	957
65°	714	756	882	998	1045	706
75°	362	429	574	642	642	384
85°	77	131	142	138	135	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2391.4	2391.4	2391.4	2391.4	2391.4
2.5°	2400.7	2382.0	2391.4	2389.0	2377.4
5°	2389.0	2372.7	2382.0	2379.7	2377.4
7.5°	2372.7	2356.4	2368.0	2365.7	2368.0
10°	2344.7	2330.7	2344.7	2347.0	2347.0
12.5°	2309.7	2298.0	2316.7	2321.4	2326.0
15°	2272.4	2263.0	2284.0	2293.4	2300.4
17.5°	2225.7	2218.7	2244.4	2256.0	2265.4
20°	2174.4	2172.1	2200.1	2211.7	2223.4
22.5°	2116.1	2116.1	2148.7	2162.7	2179.1
25°	2053.1	2055.4	2092.7	2111.4	2127.7
27.5°	1985.4	1987.7	2032.1	2055.4	2074.1
30°	1910.8	1920.1	1966.7	1997.1	2018.1
32.5°	1836.1	1847.8	1899.1	1934.1	1957.4
35°	1756.8	1770.8	1829.1	1868.8	1894.4
37.5°	1675.1	1691.4	1754.4	1798.8	1829.1
40°	1593.5	1612.1	1677.5	1728.8	1763.8
42.5°	1507.1	1528.1	1600.5	1661.1	1698.4
45°	1420.8	1444.1	1518.8	1591.1	1633.1
47.5°	1334.5	1362.5	1441.8	1521.1	1565.5
50°	1245.8	1273.8	1357.8	1448.8	1493.1
52.5°	1157.2	1189.8	1283.2	1376.5	1420.8
55°	1070.9	1103.5	1203.8	1301.8	1346.2
57.5°	982.2	1014.9	1124.5	1227.2	1271.5
60°	891.2	928.5	1042.9	1147.9	1196.8
62.5°	802.6	842.2	963.5	1075.5	1122.2
65°	713.9	755.9	881.9	998.5	1045.2
67.5°	622.9	671.9	802.6	921.5	970.5
70°	534.3	587.9	725.6	844.6	891.2
72.5°	447.9	506.3	648.6	769.9	797.9
75°	361.6	429.3	573.9	641.6	641.6
77.5°	280.0	354.6	489.9	515.6	529.6
80°	203.0	284.6	368.6	398.9	394.3
82.5°	135.3	217.0	263.6	263.6	256.6
85°	77.0	130.6	142.3	137.6	135.3
87.5°	32.7	49.0	44.3	35.0	30.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)