

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: P260903

Luminaire Tested: **24CZ-LD5-65-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260903
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-L92765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5773.0 lumens
Efficiency: N/A
Efficacy: 116.7 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

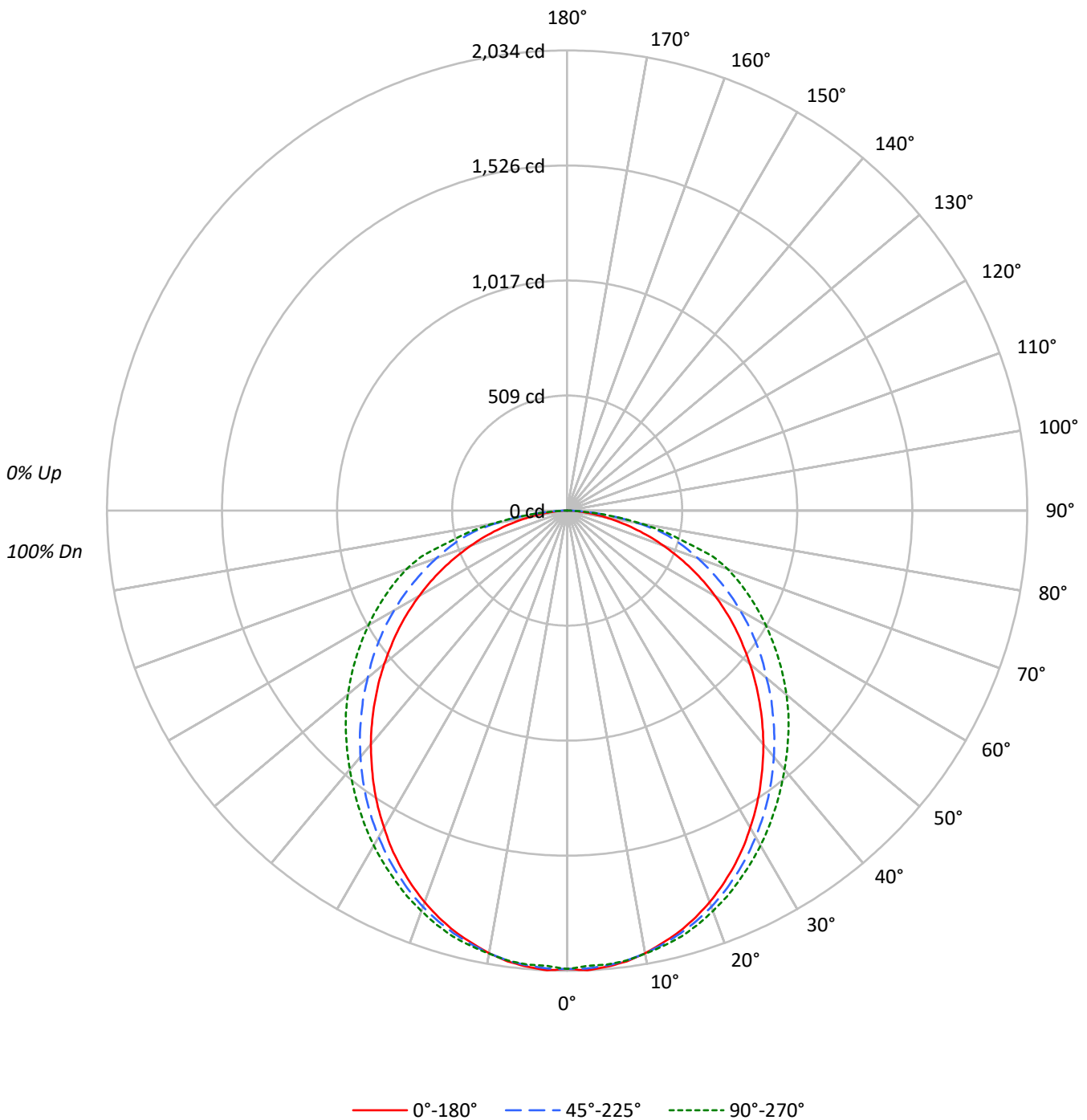
Input Watts (W): 49.476
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2726	2726	2726
5°	2734	2726	2720
10°	2714	2714	2717
15°	2682	2696	2715
20°	2638	2669	2697
25°	2582	2632	2676
30°	2515	2589	2656
35°	2445	2545	2636
40°	2371	2496	2625
45°	2291	2449	2633
50°	2209	2408	2648
55°	2128	2392	2675
60°	2032	2377	2729
65°	1926	2379	2819
70°	1781	2418	2971
75°	1593	2528	2826
80°	1333	2420	2588
85°	1007	1862	1769



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.5	3.3
10°-20°	544.9	9.4
20°-30°	814.6	14.1
30°-40°	966.4	16.7
40°-50°	994.6	17.2
50°-60°	912.4	15.8
60°-70°	737.8	12.8
70°-80°	478.8	8.3
80°-90°	132.0	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°	1550.9	26.9
0°-40°	2517.3	43.6
0°-60°	4424.4	76.6
0°-90°	5773.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5773.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2026	2026	2026	2026	2026	
5°	2024	2010	2018	2016	2014	192
15°	1925	1917	1935	1943	1949	542
25°	1739	1741	1773	1789	1803	801
35°	1488	1500	1550	1583	1605	931
45°	1204	1224	1287	1348	1384	929
55°	907	935	1020	1103	1140	811
65°	605	640	747	846	886	598
75°	306	364	486	544	544	326
85°	65	111	121	117	115	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2026.0	2026.0	2026.0	2026.0	2026.0
2.5°	2033.9	2018.1	2026.0	2024.0	2014.2
5°	2024.0	2010.2	2018.1	2016.1	2014.2
7.5°	2010.2	1996.4	2006.3	2004.3	2006.3
10°	1986.5	1974.6	1986.5	1988.5	1988.5
12.5°	1956.8	1947.0	1962.8	1966.7	1970.7
15°	1925.2	1917.3	1935.1	1943.0	1948.9
17.5°	1885.7	1879.8	1901.5	1911.4	1919.3
20°	1842.2	1840.2	1863.9	1873.8	1883.7
22.5°	1792.8	1792.8	1820.5	1832.3	1846.2
25°	1739.4	1741.4	1773.0	1788.8	1802.7
27.5°	1682.1	1684.1	1721.6	1741.4	1757.2
30°	1618.8	1626.7	1666.3	1692.0	1709.8
32.5°	1555.6	1565.5	1609.0	1638.6	1658.4
35°	1488.4	1500.2	1549.7	1583.3	1605.0
37.5°	1419.2	1433.0	1486.4	1524.0	1549.7
40°	1350.0	1365.8	1421.2	1464.7	1494.3
42.5°	1276.9	1294.7	1356.0	1407.3	1439.0
45°	1203.8	1223.5	1286.8	1348.0	1383.6
47.5°	1130.6	1154.3	1221.5	1288.7	1326.3
50°	1055.5	1079.2	1150.4	1227.5	1265.0
52.5°	980.4	1008.1	1087.1	1166.2	1203.8
55°	907.3	934.9	1019.9	1102.9	1140.5
57.5°	832.2	859.8	952.7	1039.7	1077.3
60°	755.1	786.7	883.5	972.5	1014.0
62.5°	680.0	713.6	816.3	911.2	950.7
65°	604.8	640.4	747.2	846.0	885.5
67.5°	527.8	569.3	680.0	780.8	822.3
70°	452.6	498.1	614.7	715.5	755.1
72.5°	379.5	428.9	549.5	652.3	676.0
75°	306.4	363.7	486.2	543.6	543.6
77.5°	237.2	300.4	415.1	436.8	448.7
80°	172.0	241.1	312.3	338.0	334.0
82.5°	114.6	183.8	223.4	223.4	217.4
85°	65.2	110.7	120.6	116.6	114.6
87.5°	27.7	41.5	37.6	29.6	25.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)