

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: P275929

Luminaire Tested: **24CZ2-65HE-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-65HE-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6492.0 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

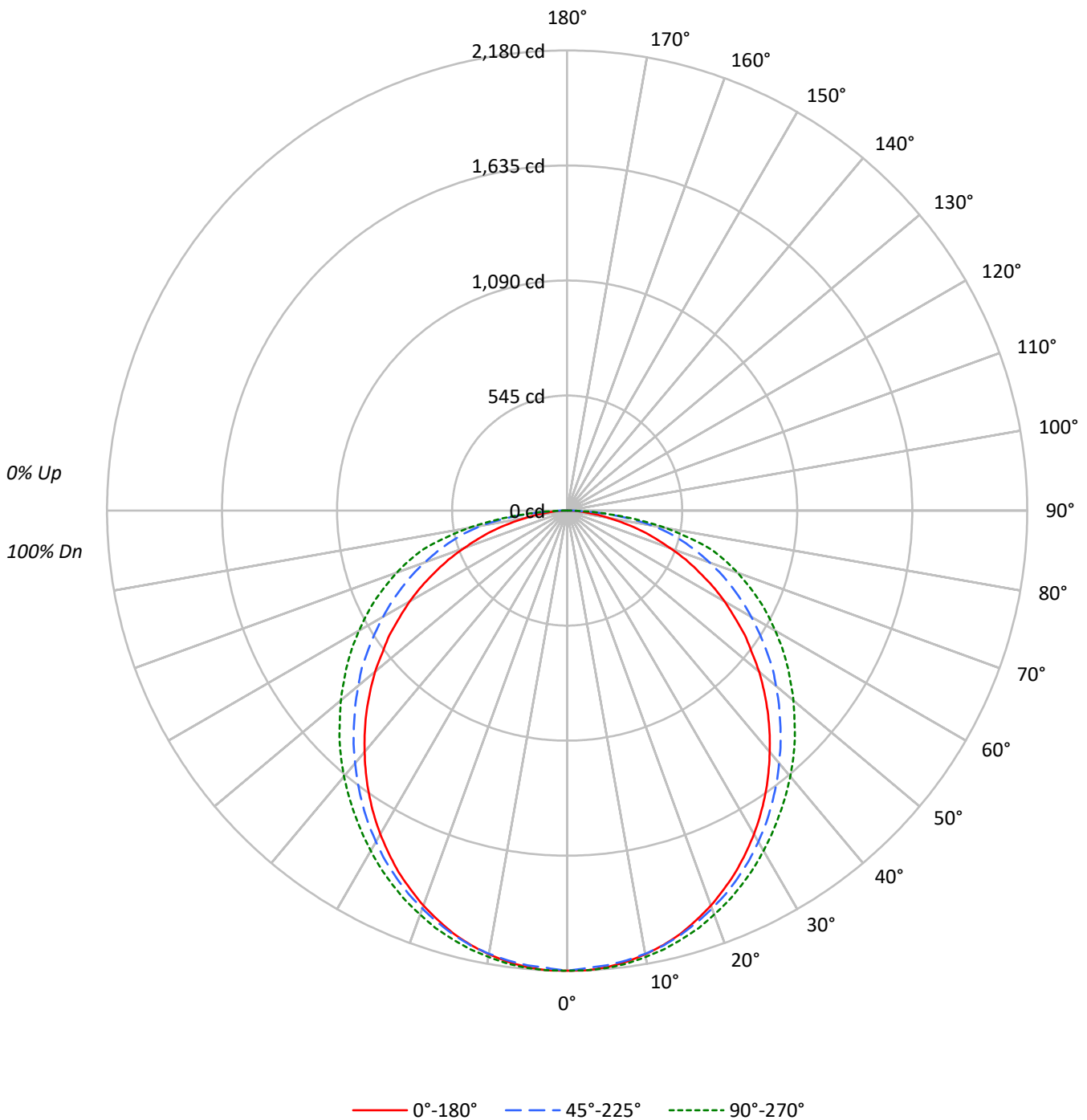
Input Watts (W): 50.034
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2933	2933	2933
5°	2932	2920	2938
10°	2916	2913	2934
15°	2891	2897	2928
20°	2851	2873	2916
25°	2805	2847	2905
30°	2750	2814	2892
35°	2690	2780	2883
40°	2622	2744	2888
45°	2556	2717	2902
50°	2485	2703	2930
55°	2409	2699	2983
60°	2315	2711	3061
65°	2194	2752	3194
70°	2037	2821	3375
75°	1858	2962	3661
80°	1528	3190	3660
85°	1170	2944	3145



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.1	3.2
10°-20°	588.5	9.1
20°-30°	885.6	13.6
30°-40°	1061.3	16.3
40°-50°	1106.0	17.0
50°-60°	1029.0	15.9
60°-70°	847.5	13.1
70°-80°	577.2	8.9
80°-90°	190.6	2.9
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°	1680.3	25.9
0°-40°	2741.6	42.2
0°-60°	4876.7	75.1
0°-90°	6492.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6492.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2180	2180	2180	2180	2180	
5°	2171	2171	2162	2173	2175	206
15°	2076	2078	2080	2100	2102	585
25°	1889	1898	1918	1950	1956	870
35°	1638	1658	1692	1738	1755	1024
45°	1343	1372	1428	1499	1525	1036
55°	1027	1062	1150	1242	1272	915
65°	689	748	864	966	1003	684
75°	358	438	570	672	704	377
85°	76	147	191	204	204	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2179.7	2179.7	2179.7	2179.7	2179.7
2.5°	2179.7	2179.7	2168.8	2179.7	2179.7
5°	2171.0	2171.0	2162.3	2173.2	2175.3
7.5°	2155.8	2158.0	2149.3	2162.3	2164.5
10°	2134.2	2136.3	2132.0	2145.0	2147.2
12.5°	2108.2	2110.3	2110.3	2125.5	2127.7
15°	2075.7	2077.8	2080.0	2099.5	2101.7
17.5°	2034.5	2041.0	2045.3	2069.2	2073.5
20°	1991.2	1997.7	2006.3	2032.3	2036.7
22.5°	1941.3	1950.0	1965.2	1993.3	1999.8
25°	1889.3	1898.0	1917.5	1950.0	1956.5
27.5°	1830.8	1843.8	1867.7	1902.3	1911.0
30°	1770.2	1783.2	1811.3	1848.2	1861.2
32.5°	1705.2	1722.5	1755.0	1796.2	1809.2
35°	1638.0	1657.5	1692.2	1737.7	1755.0
37.5°	1566.5	1588.2	1629.3	1679.2	1700.8
40°	1492.8	1518.8	1562.2	1620.7	1644.5
42.5°	1419.2	1443.0	1497.2	1560.0	1586.0
45°	1343.3	1371.5	1427.8	1499.3	1525.3
47.5°	1265.3	1293.5	1360.7	1436.5	1460.3
50°	1187.3	1215.5	1291.3	1371.5	1399.7
52.5°	1102.8	1139.7	1226.3	1306.5	1334.7
55°	1027.0	1061.7	1150.5	1241.5	1271.8
57.5°	940.3	981.5	1079.0	1174.3	1206.8
60°	860.2	903.5	1007.5	1105.0	1137.5
62.5°	777.8	825.5	936.0	1035.7	1072.5
65°	689.0	747.5	864.5	966.3	1003.2
67.5°	608.8	669.5	793.0	897.0	929.5
70°	517.8	591.5	717.2	821.2	858.0
72.5°	439.8	513.5	645.7	747.5	784.3
75°	357.5	437.7	569.8	671.7	704.2
77.5°	275.2	364.0	496.2	574.2	585.0
80°	197.2	290.3	411.7	457.2	472.3
82.5°	138.7	223.2	303.3	333.7	342.3
85°	75.8	147.3	190.7	203.7	203.7
87.5°	32.5	62.8	75.8	78.0	80.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)