

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: P276241

Luminaire Tested: **24CZ2-65HE-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276241
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-L92765-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5038.4 lumens
Efficiency: N/A
Efficacy: 104.0 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

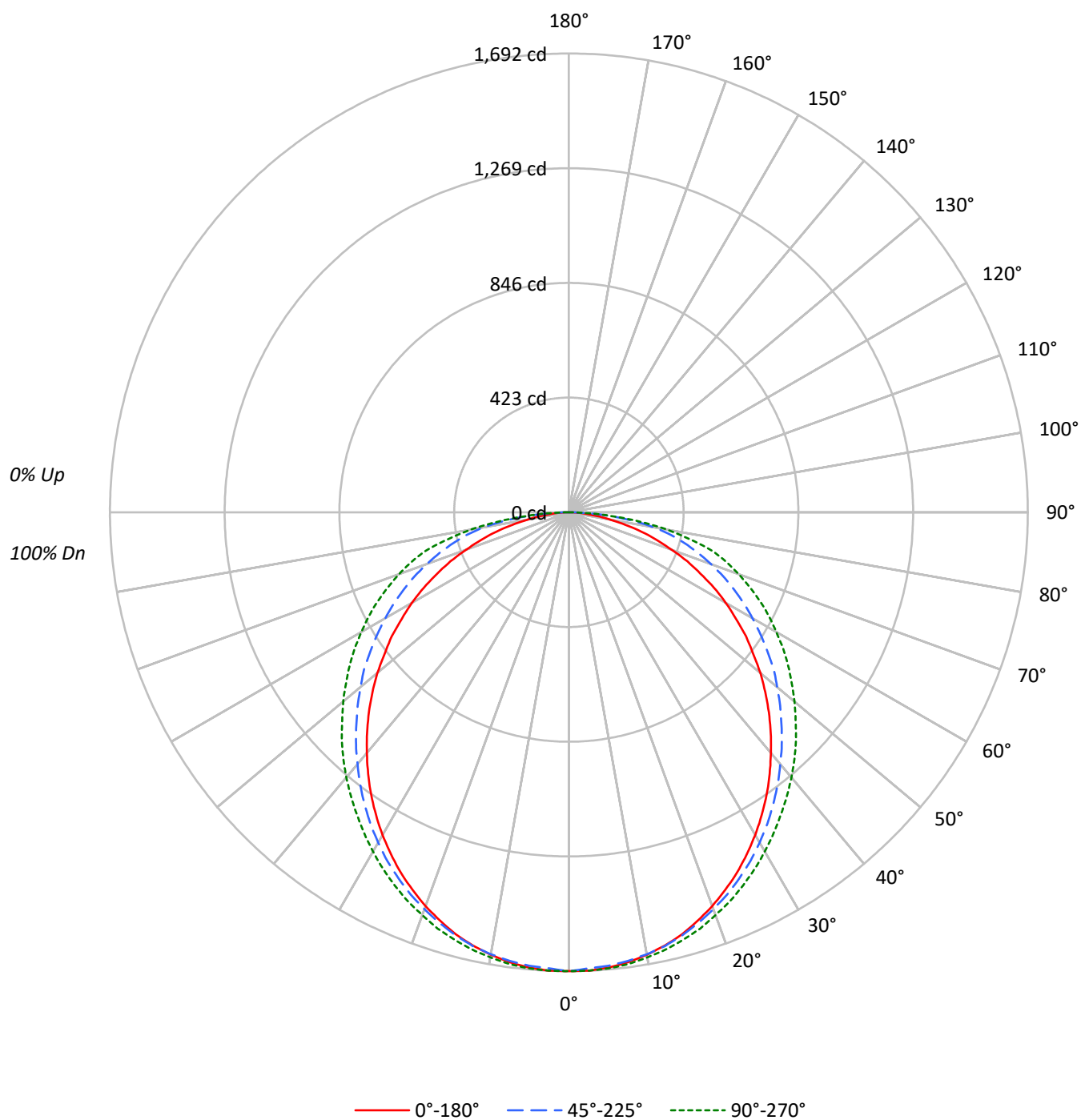
Input Watts (W): 48.453
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	98	94	105	100	96	92		96	93	89		92	89	87		89	86	84
2	98	89	82	76	95	87	80	75		83	78	73		80	75	71		77	73	70
3	89	78	69	62	86	76	68	62		73	66	61		70	64	60		68	63	58
4	81	69	59	52	79	67	59	52		65	57	51		62	56	51		60	55	50
5	74	61	52	45	72	60	51	45		58	50	44		56	49	44		54	48	43
6	69	55	46	39	67	54	45	39		52	44	39		50	44	38		49	43	38
7	64	50	41	35	62	49	40	34		47	40	34		46	39	34		45	38	34
8	59	45	37	31	58	45	36	31		43	36	30		42	35	30		41	35	30
9	55	42	33	28	54	41	33	28		40	33	27		39	32	27		38	32	27
10	52	38	30	25	51	38	30	25		37	30	25		36	29	25		35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2276	2276	2276
5°	2276	2267	2280
10°	2263	2261	2277
15°	2244	2249	2272
20°	2213	2230	2263
25°	2177	2209	2254
30°	2134	2184	2244
35°	2088	2157	2237
40°	2035	2129	2242
45°	1984	2109	2253
50°	1929	2098	2274
55°	1870	2095	2316
60°	1796	2104	2376
65°	1702	2136	2479
70°	1581	2190	2620
75°	1443	2299	2841
80°	1185	2476	2841
85°	909	2285	2441



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.0	3.2
10°-20°	456.8	9.1
20°-30°	687.3	13.6
30°-40°	823.7	16.3
40°-50°	858.4	17.0
50°-60°	798.6	15.9
60°-70°	657.8	13.1
70°-80°	448.0	8.9
80°-90°	147.9	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°	1304.1	25.9
0°-40°	2127.8	42.2
0°-60°	3784.8	75.1
0°-90°	5038.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5038.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1692	1692	1692	1692	1692	
5°	1685	1685	1678	1687	1688	160
15°	1611	1613	1614	1629	1631	454
25°	1466	1473	1488	1513	1518	675
35°	1271	1286	1313	1349	1362	795
45°	1043	1064	1108	1164	1184	804
55°	797	824	893	964	987	710
65°	535	580	671	750	779	531
75°	278	340	442	521	546	293
85°	59	114	148	158	158	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1691.6	1691.6	1691.6	1691.6	1691.6
2.5°	1691.6	1691.6	1683.2	1691.6	1691.6
5°	1684.9	1684.9	1678.2	1686.6	1688.3
7.5°	1673.1	1674.8	1668.1	1678.2	1679.9
10°	1656.3	1658.0	1654.6	1664.7	1666.4
12.5°	1636.1	1637.8	1637.8	1649.6	1651.3
15°	1610.9	1612.6	1614.3	1629.4	1631.1
17.5°	1579.0	1584.0	1587.4	1605.9	1609.2
20°	1545.3	1550.4	1557.1	1577.3	1580.6
22.5°	1506.7	1513.4	1525.2	1547.0	1552.1
25°	1466.3	1473.0	1488.2	1513.4	1518.4
27.5°	1420.9	1431.0	1449.5	1476.4	1483.1
30°	1373.8	1383.9	1405.8	1434.3	1444.4
32.5°	1323.4	1336.8	1362.0	1394.0	1404.1
35°	1271.2	1286.4	1313.3	1348.6	1362.0
37.5°	1215.7	1232.6	1264.5	1303.2	1320.0
40°	1158.6	1178.8	1212.4	1257.8	1276.3
42.5°	1101.4	1119.9	1161.9	1210.7	1230.9
45°	1042.6	1064.4	1108.1	1163.6	1183.8
47.5°	982.0	1003.9	1056.0	1114.9	1133.4
50°	921.5	943.3	1002.2	1064.4	1086.3
52.5°	855.9	884.5	951.7	1014.0	1035.8
55°	797.0	824.0	892.9	963.5	987.1
57.5°	729.8	761.7	837.4	911.4	936.6
60°	667.6	701.2	781.9	857.6	882.8
62.5°	603.7	640.7	726.4	803.8	832.4
65°	534.7	580.1	670.9	750.0	778.6
67.5°	472.5	519.6	615.4	696.2	721.4
70°	401.9	459.1	556.6	637.3	665.9
72.5°	341.4	398.5	501.1	580.1	608.7
75°	277.5	339.7	442.2	521.3	546.5
77.5°	213.6	282.5	385.1	445.6	454.0
80°	153.0	225.3	319.5	354.8	366.6
82.5°	107.6	173.2	235.4	259.0	265.7
85°	58.9	114.3	148.0	158.1	158.1
87.5°	25.2	48.8	58.9	60.5	62.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)