

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: P275994

Luminaire Tested: **24CZ2-55HE-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275994
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: 24CZ2-55HE-UNV-L93050-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4819.8 lumens
Efficiency: N/A
Efficacy: 117.2 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

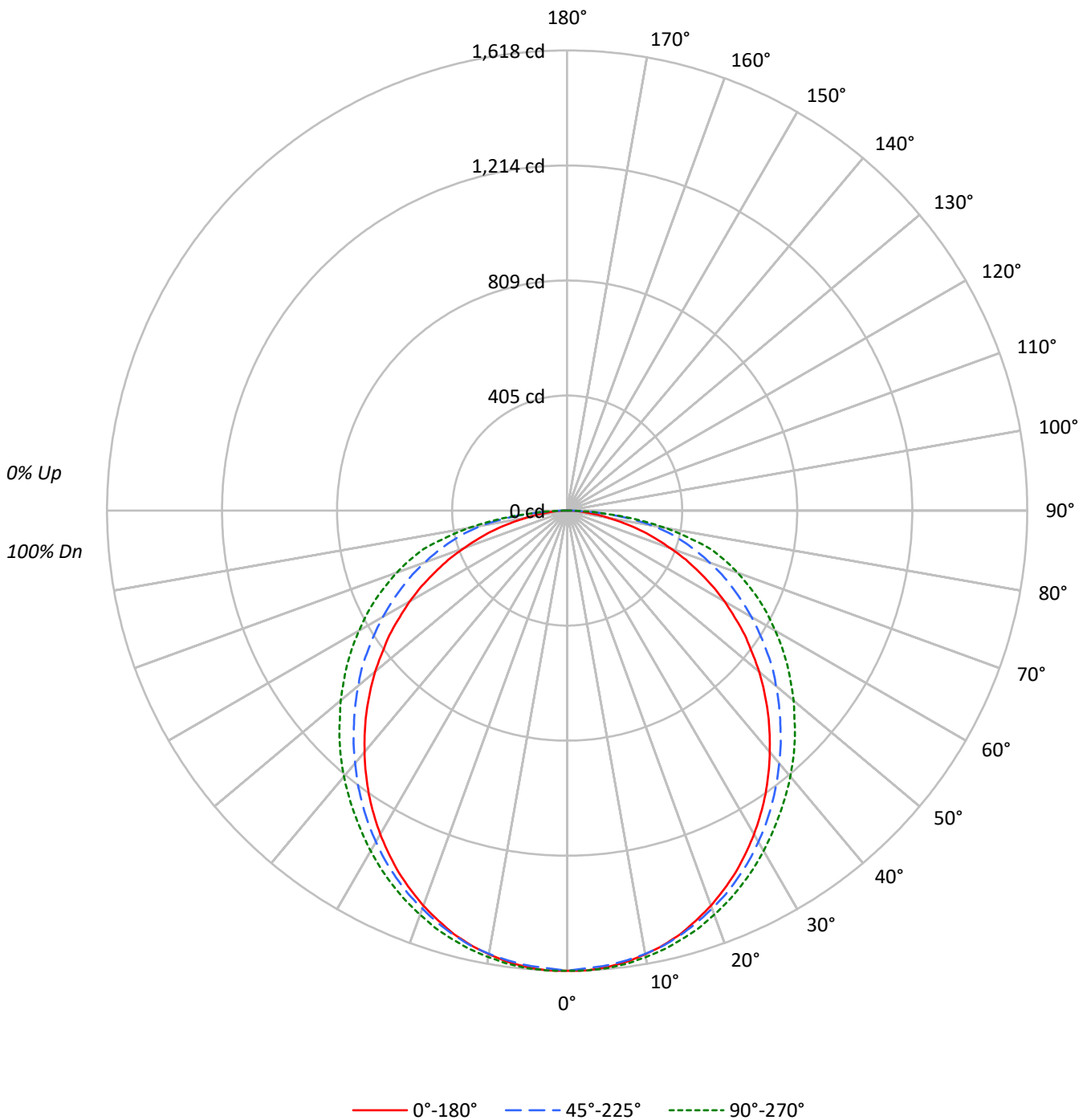
Input Watts (W): 41.125158
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2177	2177	2177
5°	2177	2168	2181
10°	2165	2162	2178
15°	2147	2151	2173
20°	2117	2133	2165
25°	2082	2113	2156
30°	2042	2089	2147
35°	1997	2064	2140
40°	1947	2037	2144
45°	1898	2017	2155
50°	1845	2007	2175
55°	1789	2004	2215
60°	1718	2013	2273
65°	1628	2043	2371
70°	1512	2094	2506
75°	1380	2200	2718
80°	1134	2368	2717
85°	869	2186	2334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.0	3.2
10°-20°	436.9	9.1
20°-30°	657.5	13.6
30°-40°	788.0	16.3
40°-50°	821.1	17.0
50°-60°	764.0	15.9
60°-70°	629.2	13.1
70°-80°	428.5	8.9
80°-90°	141.5	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°	1247.5	25.9
0°-40°	2035.4	42.2
0°-60°	3620.5	75.1
0°-90°	4819.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4819.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1618	1618	1618	1618	1618	
5°	1612	1612	1605	1613	1615	153
15°	1541	1543	1544	1559	1560	434
25°	1403	1409	1424	1448	1452	646
35°	1216	1231	1256	1290	1303	760
45°	997	1018	1060	1113	1132	769
55°	762	788	854	922	944	680
65°	512	555	642	717	745	508
75°	265	325	423	499	523	280
85°	56	109	142	151	151	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1618.2	1618.2	1618.2	1618.2	1618.2
2.5°	1618.2	1618.2	1610.2	1618.2	1618.2
5°	1611.8	1611.8	1605.4	1613.4	1615.0
7.5°	1600.5	1602.1	1595.7	1605.4	1607.0
10°	1584.4	1586.1	1582.8	1592.5	1594.1
12.5°	1565.1	1566.7	1566.7	1578.0	1579.6
15°	1541.0	1542.6	1544.2	1558.7	1560.3
17.5°	1510.4	1515.3	1518.5	1536.2	1539.4
20°	1478.3	1483.1	1489.5	1508.8	1512.1
22.5°	1441.3	1447.7	1459.0	1479.9	1484.7
25°	1402.7	1409.1	1423.6	1447.7	1452.5
27.5°	1359.2	1368.9	1386.6	1412.3	1418.8
30°	1314.2	1323.9	1344.8	1372.1	1381.8
32.5°	1265.9	1278.8	1302.9	1333.5	1343.2
35°	1216.1	1230.6	1256.3	1290.1	1302.9
37.5°	1163.0	1179.1	1209.6	1246.6	1262.7
40°	1108.3	1127.6	1159.8	1203.2	1220.9
42.5°	1053.6	1071.3	1111.5	1158.2	1177.5
45°	997.3	1018.2	1060.0	1113.1	1132.4
47.5°	939.4	960.3	1010.2	1066.5	1084.2
50°	881.5	902.4	958.7	1018.2	1039.1
52.5°	818.8	846.1	910.5	970.0	990.9
55°	762.5	788.2	854.2	921.7	944.2
57.5°	698.1	728.7	801.1	871.8	896.0
60°	638.6	670.8	748.0	820.4	844.5
62.5°	577.5	612.9	694.9	768.9	796.2
65°	511.5	555.0	641.8	717.4	744.8
67.5°	452.0	497.0	588.7	665.9	690.1
70°	384.4	439.1	532.4	609.6	637.0
72.5°	326.5	381.2	479.4	555.0	582.3
75°	265.4	324.9	423.1	498.7	522.8
77.5°	204.3	270.2	368.4	426.3	434.3
80°	146.4	215.5	305.6	339.4	350.7
82.5°	102.9	165.7	225.2	247.7	254.2
85°	56.3	109.4	141.6	151.2	151.2
87.5°	24.1	46.6	56.3	57.9	59.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)