

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: P276970

Luminaire Tested: **24CZ2-75HE-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276970
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-75HE-RDP-UNV-L82765-W2A1-U-5700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5000.2 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

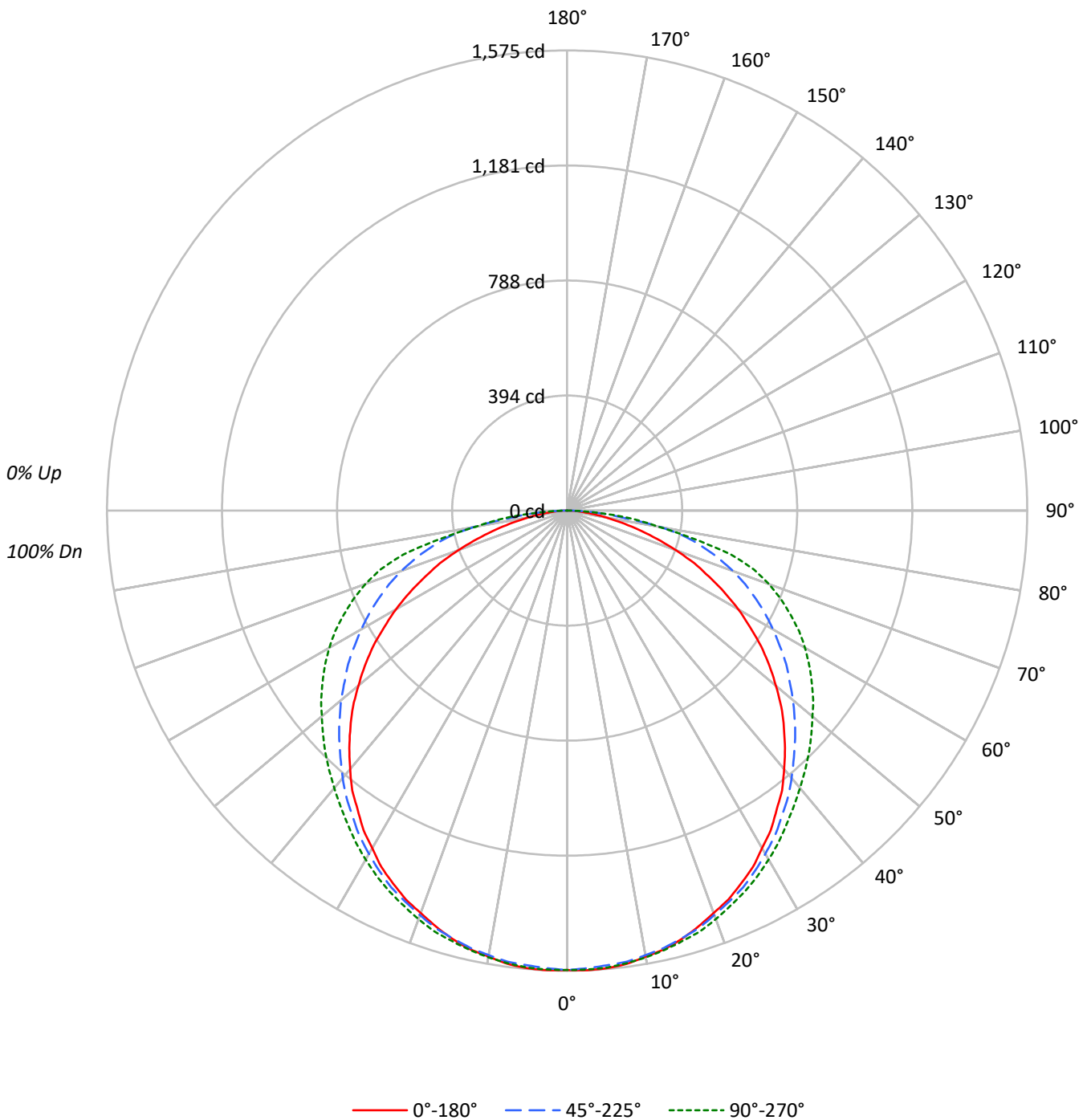
Input Watts (W): 60.078
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2116	2116	2116
5°	2124	2110	2120
10°	2118	2111	2121
15°	2114	2111	2125
20°	2099	2109	2131
25°	2091	2113	2136
30°	2073	2108	2142
35°	2053	2102	2151
40°	2030	2100	2178
45°	1996	2100	2227
50°	1952	2113	2295
55°	1902	2147	2397
60°	1822	2189	2530
65°	1706	2266	2685
70°	1551	2371	2888
75°	1315	2502	3017
80°	1038	2517	2441
85°	766	1914	2144



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.2	3.0
10°-20°	429.3	8.6
20°-30°	656.5	13.1
30°-40°	802.5	16.0
40°-50°	855.3	17.1
50°-60°	817.8	16.4
60°-70°	692.8	13.9
70°-80°	465.6	9.3
80°-90°	131.3	2.6
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°	1234.9	24.7
0°-40°	2037.4	40.7
0°-60°	3710.5	74.2
0°-90°	5000.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5000.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1572	1572	1572	1572	1572	
5°	1572	1570	1562	1570	1570	149
15°	1518	1518	1515	1528	1525	428
25°	1409	1414	1424	1436	1438	649
35°	1250	1260	1280	1305	1310	783
45°	1049	1066	1104	1151	1171	809
55°	811	841	915	987	1022	722
65°	536	590	712	806	843	532
75°	253	345	481	563	580	271
85°	50	102	124	134	139	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1572.4	1572.4	1572.4	1572.4	1572.4
2.5°	1574.9	1574.9	1567.5	1572.4	1572.4
5°	1572.4	1570.0	1562.5	1570.0	1570.0
7.5°	1565.0	1562.5	1557.6	1565.0	1562.5
10°	1550.1	1550.1	1545.2	1552.6	1552.6
12.5°	1537.7	1535.2	1532.8	1542.7	1540.2
15°	1517.9	1517.9	1515.4	1527.8	1525.3
17.5°	1493.1	1495.5	1498.0	1507.9	1510.4
20°	1465.8	1470.7	1473.2	1488.1	1488.1
22.5°	1441.0	1443.5	1448.4	1463.3	1463.3
25°	1408.7	1413.7	1423.6	1436.0	1438.5
27.5°	1376.5	1379.0	1391.4	1408.7	1411.2
30°	1334.3	1341.8	1356.7	1376.5	1379.0
32.5°	1297.1	1304.6	1321.9	1341.8	1346.7
35°	1250.0	1259.9	1279.8	1304.6	1309.5
37.5°	1207.8	1215.3	1240.1	1267.4	1274.8
40°	1155.8	1170.6	1195.4	1227.7	1240.1
42.5°	1103.7	1118.6	1148.3	1190.5	1205.4
45°	1049.1	1066.5	1103.7	1150.8	1170.6
47.5°	994.6	1014.4	1056.6	1111.1	1133.4
50°	932.5	957.3	1009.4	1071.4	1096.2
52.5°	873.0	902.8	959.8	1029.3	1061.5
55°	811.0	840.8	915.2	987.1	1021.8
57.5°	741.6	781.3	863.1	944.9	982.2
60°	677.1	714.3	813.5	902.8	940.0
62.5°	607.6	657.2	763.9	858.1	895.3
65°	535.7	590.3	711.8	806.1	843.3
67.5°	471.2	530.8	659.7	754.0	791.2
70°	394.3	468.8	602.7	696.9	734.1
72.5°	322.4	404.3	543.2	634.9	669.6
75°	253.0	344.7	481.2	563.0	580.4
77.5°	188.5	285.2	416.7	451.4	439.0
80°	133.9	228.2	324.9	307.5	315.0
82.5°	86.8	173.6	200.9	228.2	235.6
85°	49.6	101.7	124.0	133.9	138.9
87.5°	22.3	37.2	49.6	49.6	47.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)