

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: P276850

Luminaire Tested: **24CZ2-70HE-RDP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276850
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: 24CZ2-70HE-RDP-UNV-L93050-W2A1-U-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4190.1 lumens
Efficiency: N/A
Efficacy: 74.9 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

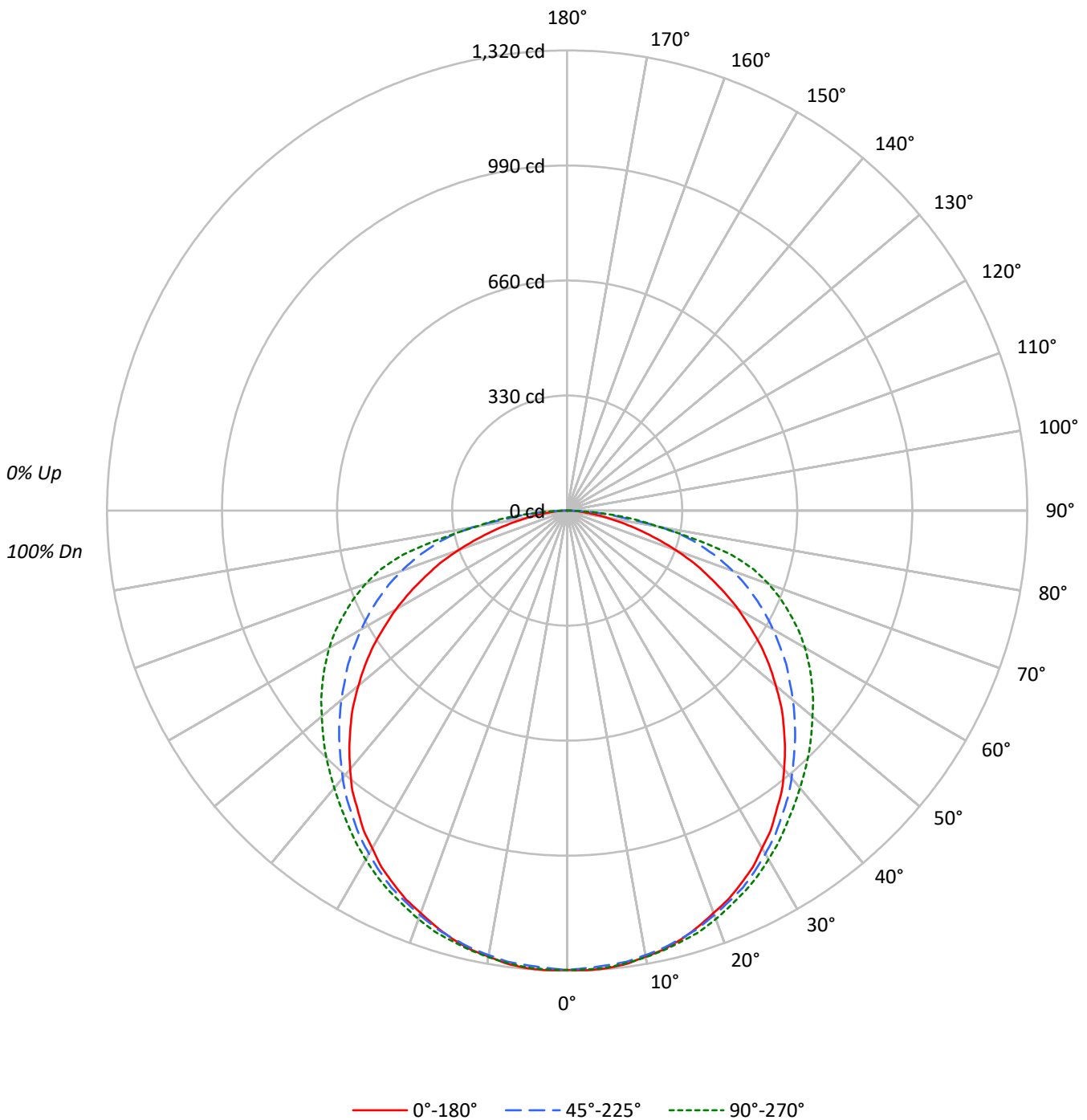
Input Watts (W): 55.914762
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1773	1773	1773
5°	1780	1768	1777
10°	1775	1769	1777
15°	1772	1769	1780
20°	1759	1768	1786
25°	1753	1771	1790
30°	1737	1766	1795
35°	1721	1761	1803
40°	1701	1760	1825
45°	1673	1760	1867
50°	1636	1771	1923
55°	1594	1799	2009
60°	1527	1834	2120
65°	1429	1899	2250
70°	1300	1987	2420
75°	1102	2096	2528
80°	869	2110	2045
85°	642	1604	1797



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	3.0
10°-20°	359.7	8.6
20°-30°	550.1	13.1
30°-40°	672.5	16.0
40°-50°	716.7	17.1
50°-60°	685.3	16.4
60°-70°	580.5	13.9
70°-80°	390.2	9.3
80°-90°	110.1	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°	1034.8	24.7
0°-40°	1707.3	40.7
0°-60°	3109.3	74.2
0°-90°	4190.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4190.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1318	1318	1318	1318	1318	
5°	1318	1316	1309	1316	1316	125
15°	1272	1272	1270	1280	1278	359
25°	1180	1185	1193	1203	1205	544
35°	1048	1056	1072	1093	1097	656
45°	879	894	925	964	981	678
55°	680	705	767	827	856	605
65°	449	495	596	676	707	446
75°	212	289	403	472	486	227
85°	42	85	104	112	116	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1317.7	1317.7	1317.7	1317.7	1317.7
2.5°	1319.7	1319.7	1313.5	1317.7	1317.7
5°	1317.7	1315.6	1309.3	1315.6	1315.6
7.5°	1311.4	1309.3	1305.2	1311.4	1309.3
10°	1299.0	1299.0	1294.8	1301.0	1301.0
12.5°	1288.6	1286.5	1284.4	1292.7	1290.6
15°	1271.9	1271.9	1269.9	1280.2	1278.2
17.5°	1251.2	1253.2	1255.3	1263.6	1265.7
20°	1228.3	1232.4	1234.5	1247.0	1247.0
22.5°	1207.5	1209.6	1213.7	1226.2	1226.2
25°	1180.5	1184.6	1193.0	1203.4	1205.4
27.5°	1153.5	1155.5	1165.9	1180.5	1182.6
30°	1118.1	1124.4	1136.8	1153.5	1155.5
32.5°	1087.0	1093.2	1107.7	1124.4	1128.5
35°	1047.5	1055.8	1072.4	1093.2	1097.4
37.5°	1012.1	1018.4	1039.2	1062.0	1068.3
40°	968.5	981.0	1001.8	1028.8	1039.2
42.5°	924.9	937.3	962.3	997.6	1010.1
45°	879.1	893.7	924.9	964.3	981.0
47.5°	833.4	850.0	885.4	931.1	949.8
50°	781.5	802.2	845.9	897.8	918.6
52.5°	731.6	756.5	804.3	862.5	889.5
55°	679.6	704.6	766.9	827.2	856.3
57.5°	621.4	654.7	723.3	791.8	823.0
60°	567.4	598.6	681.7	756.5	787.7
62.5°	509.2	550.8	640.1	719.1	750.3
65°	448.9	494.6	596.5	675.5	706.6
67.5°	394.9	444.8	552.8	631.8	663.0
70°	330.5	392.8	505.0	584.0	615.2
72.5°	270.2	338.8	455.2	532.1	561.1
75°	212.0	288.9	403.2	471.8	486.3
77.5°	158.0	239.0	349.2	378.3	367.9
80°	112.2	191.2	272.3	257.7	263.9
82.5°	72.7	145.5	168.3	191.2	197.4
85°	41.6	85.2	103.9	112.2	116.4
87.5°	18.7	31.2	41.6	41.6	39.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)