

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: P276933

Luminaire Tested: **24CZ2-55HE-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276933
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: 24CZ2-55HE-RDP-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3671.8 lumens
Efficiency: N/A
Efficacy: 89.1 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

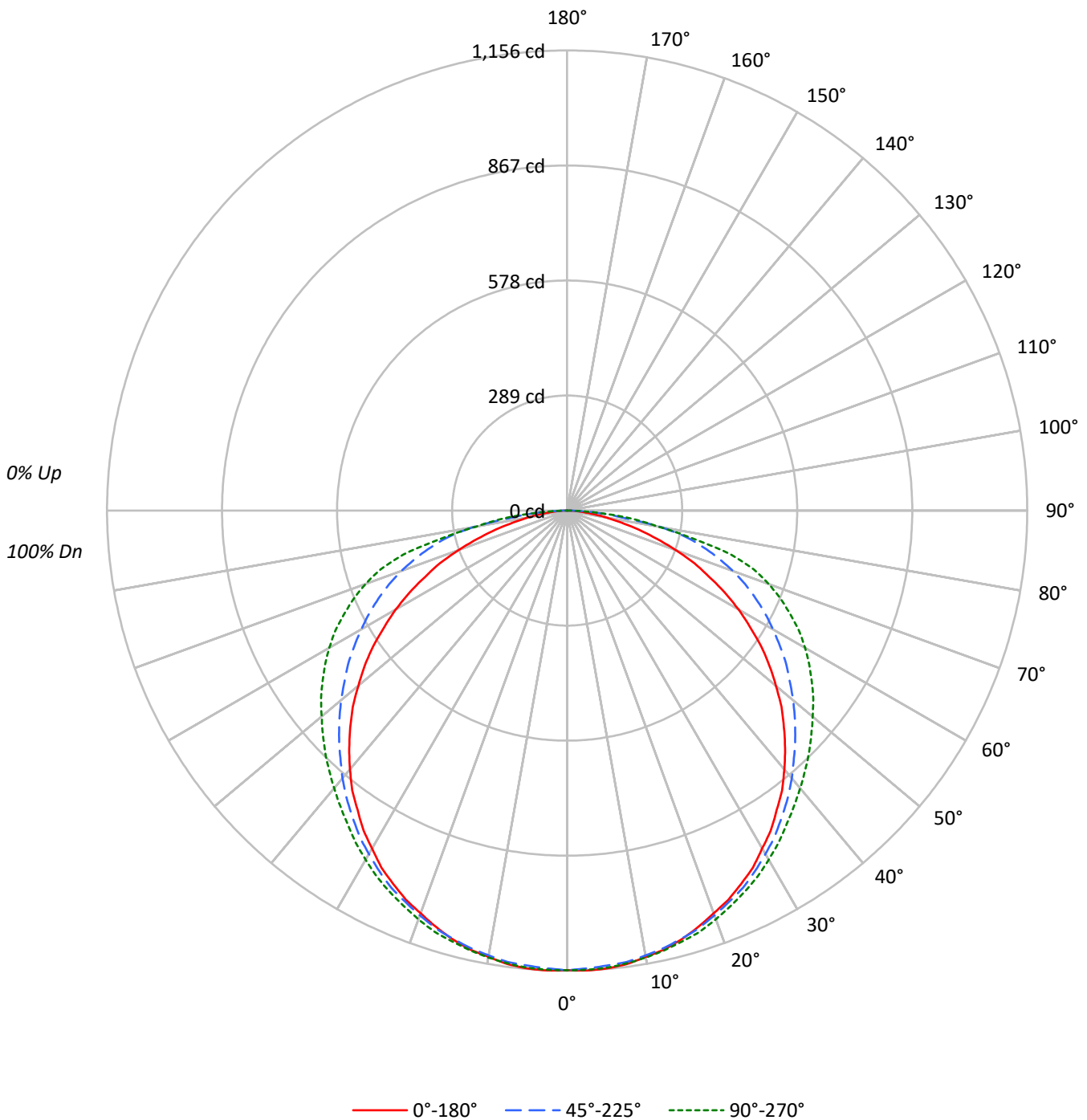
Input Watts (W): 41.199
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1554	1554	1554
5°	1560	1550	1557
10°	1555	1550	1558
15°	1553	1550	1560
20°	1541	1549	1565
25°	1536	1552	1568
30°	1522	1548	1573
35°	1508	1544	1579
40°	1491	1542	1599
45°	1466	1542	1636
50°	1433	1551	1685
55°	1397	1576	1760
60°	1338	1608	1857
65°	1252	1664	1971
70°	1139	1741	2121
75°	966	1837	2216
80°	762	1849	1792
85°	562	1406	1575



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.5	3.0
10°-20°	315.2	8.6
20°-30°	482.1	13.1
30°-40°	589.3	16.0
40°-50°	628.1	17.1
50°-60°	600.5	16.4
60°-70°	508.7	13.9
70°-80°	341.9	9.3
80°-90°	96.4	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°	906.8	24.7
0°-40°	1496.1	40.7
0°-60°	2724.7	74.2
0°-90°	3671.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3671.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1155	1155	1155	1155	1155	
5°	1155	1153	1147	1153	1153	110
15°	1115	1115	1113	1122	1120	314
25°	1034	1038	1045	1054	1056	477
35°	918	925	940	958	962	575
45°	770	783	810	845	860	594
55°	596	617	672	725	750	530
65°	393	434	523	592	619	391
75°	186	253	353	413	426	199
85°	36	75	91	98	102	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1154.7	1154.7	1154.7	1154.7	1154.7
2.5°	1156.5	1156.5	1151.0	1154.7	1154.7
5°	1154.7	1152.8	1147.4	1152.8	1152.8
7.5°	1149.2	1147.4	1143.7	1149.2	1147.4
10°	1138.3	1138.3	1134.6	1140.1	1140.1
12.5°	1129.2	1127.3	1125.5	1132.8	1131.0
15°	1114.6	1114.6	1112.8	1121.9	1120.1
17.5°	1096.4	1098.2	1100.0	1107.3	1109.1
20°	1076.4	1080.0	1081.8	1092.7	1092.7
22.5°	1058.1	1060.0	1063.6	1074.5	1074.5
25°	1034.5	1038.1	1045.4	1054.5	1056.3
27.5°	1010.8	1012.6	1021.7	1034.5	1036.3
30°	979.8	985.3	996.2	1010.8	1012.6
32.5°	952.5	958.0	970.7	985.3	988.9
35°	917.9	925.2	939.8	958.0	961.6
37.5°	886.9	892.4	910.6	930.7	936.1
40°	848.7	859.6	877.8	901.5	910.6
42.5°	810.5	821.4	843.2	874.2	885.1
45°	770.4	783.1	810.5	845.1	859.6
47.5°	730.3	744.9	775.8	815.9	832.3
50°	684.8	703.0	741.2	786.8	805.0
52.5°	641.1	662.9	704.8	755.8	779.5
55°	595.5	617.4	672.0	724.9	750.4
57.5°	544.6	573.7	633.8	693.9	721.2
60°	497.2	524.5	597.4	662.9	690.2
62.5°	446.2	482.6	560.9	630.1	657.5
65°	393.4	433.5	522.7	591.9	619.2
67.5°	346.0	389.7	484.4	553.7	581.0
70°	289.6	344.2	442.6	511.8	539.1
72.5°	236.8	296.9	398.9	466.2	491.7
75°	185.8	253.2	353.3	413.4	426.2
77.5°	138.4	209.4	306.0	331.5	322.4
80°	98.3	167.6	238.6	225.8	231.3
82.5°	63.7	127.5	147.5	167.6	173.0
85°	36.4	74.7	91.1	98.3	102.0
87.5°	16.4	27.3	36.4	36.4	34.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)