

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: P276967

Luminaire Tested: **24CZ2-75HE-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276967
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-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4871.7 lumens
Efficiency: N/A
Efficacy: 81.9 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

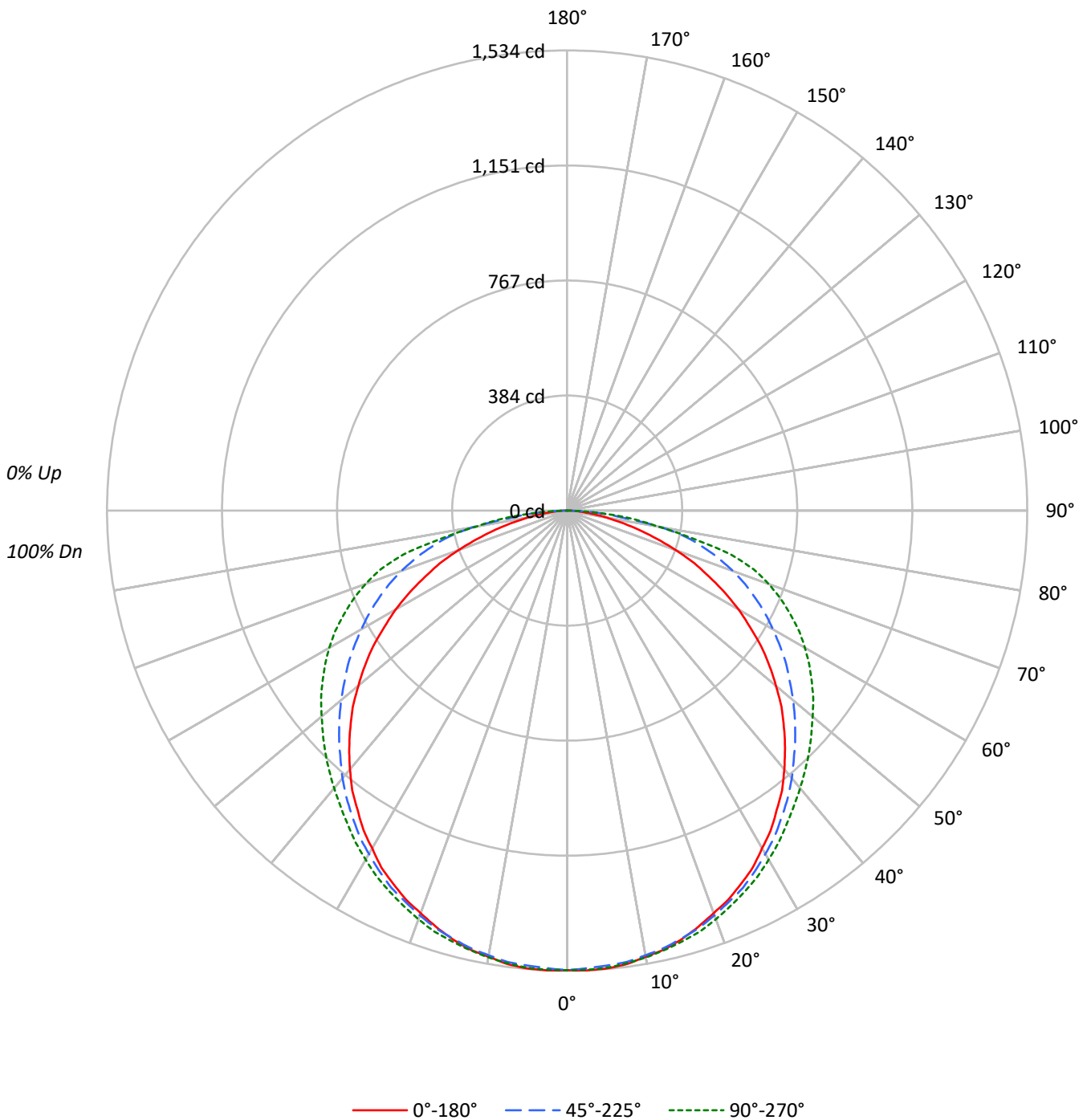
Input Watts (W): 59.52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2061	2061	2061
5°	2069	2056	2066
10°	2063	2057	2067
15°	2060	2057	2070
20°	2045	2055	2076
25°	2038	2059	2081
30°	2020	2054	2087
35°	2000	2048	2096
40°	1978	2046	2122
45°	1945	2046	2170
50°	1902	2059	2236
55°	1854	2092	2335
60°	1775	2133	2464
65°	1662	2208	2616
70°	1511	2310	2814
75°	1281	2437	2939
80°	1011	2453	2378
85°	746	1865	2089



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.3	3.0
10°-20°	418.2	8.6
20°-30°	639.6	13.1
30°-40°	781.9	16.0
40°-50°	833.3	17.1
50°-60°	796.8	16.4
60°-70°	675.0	13.9
70°-80°	453.6	9.3
80°-90°	128.0	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°	1203.2	24.7
0°-40°	1985.0	40.7
0°-60°	3615.2	74.2
0°-90°	4871.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4871.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1532	1532	1532	1532	1532	
5°	1532	1530	1522	1530	1530	146
15°	1479	1479	1476	1488	1486	417
25°	1372	1377	1387	1399	1402	633
35°	1218	1228	1247	1271	1276	763
45°	1022	1039	1075	1121	1141	788
55°	790	819	892	962	996	704
65°	522	575	694	785	822	518
75°	246	336	469	548	565	264
85°	48	99	121	130	135	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1532.0	1532.0	1532.0	1532.0	1532.0
2.5°	1534.4	1534.4	1527.2	1532.0	1532.0
5°	1532.0	1529.6	1522.4	1529.6	1529.6
7.5°	1524.8	1522.4	1517.5	1524.8	1522.4
10°	1510.3	1510.3	1505.4	1512.7	1512.7
12.5°	1498.2	1495.8	1493.4	1503.0	1500.6
15°	1478.9	1478.9	1476.4	1488.5	1486.1
17.5°	1454.7	1457.1	1459.5	1469.2	1471.6
20°	1428.1	1432.9	1435.4	1449.9	1449.9
22.5°	1403.9	1406.4	1411.2	1425.7	1425.7
25°	1372.5	1377.4	1387.0	1399.1	1401.5
27.5°	1341.1	1343.5	1355.6	1372.5	1375.0
30°	1300.0	1307.3	1321.8	1341.1	1343.5
32.5°	1263.8	1271.0	1288.0	1307.3	1312.1
35°	1217.9	1227.5	1246.9	1271.0	1275.9
37.5°	1176.8	1184.1	1208.2	1234.8	1242.0
40°	1126.1	1140.6	1164.7	1196.1	1208.2
42.5°	1075.3	1089.8	1118.8	1159.9	1174.4
45°	1022.2	1039.1	1075.3	1121.2	1140.6
47.5°	969.0	988.3	1029.4	1082.6	1104.3
50°	908.6	932.7	983.5	1043.9	1068.1
52.5°	850.6	879.6	935.2	1002.8	1034.2
55°	790.2	819.2	891.7	961.7	995.6
57.5°	722.5	761.2	840.9	920.7	956.9
60°	659.7	695.9	792.6	879.6	915.8
62.5°	592.0	640.4	744.3	836.1	872.3
65°	521.9	575.1	693.5	785.3	821.6
67.5°	459.1	517.1	642.8	734.6	770.8
70°	384.2	456.7	587.2	679.0	715.3
72.5°	314.1	393.9	529.2	618.6	652.4
75°	246.5	335.9	468.8	548.5	565.4
77.5°	183.6	277.9	406.0	439.8	427.7
80°	130.5	222.3	316.6	299.6	306.9
82.5°	84.6	169.2	195.7	222.3	229.6
85°	48.3	99.1	120.8	130.5	135.3
87.5°	21.7	36.2	48.3	48.3	45.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)