

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: P276141

Luminaire Tested: **24CZ2-35-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276141
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: 24CZ2-35-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3087.7 lumens
Efficiency: N/A
Efficacy: 118.6 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

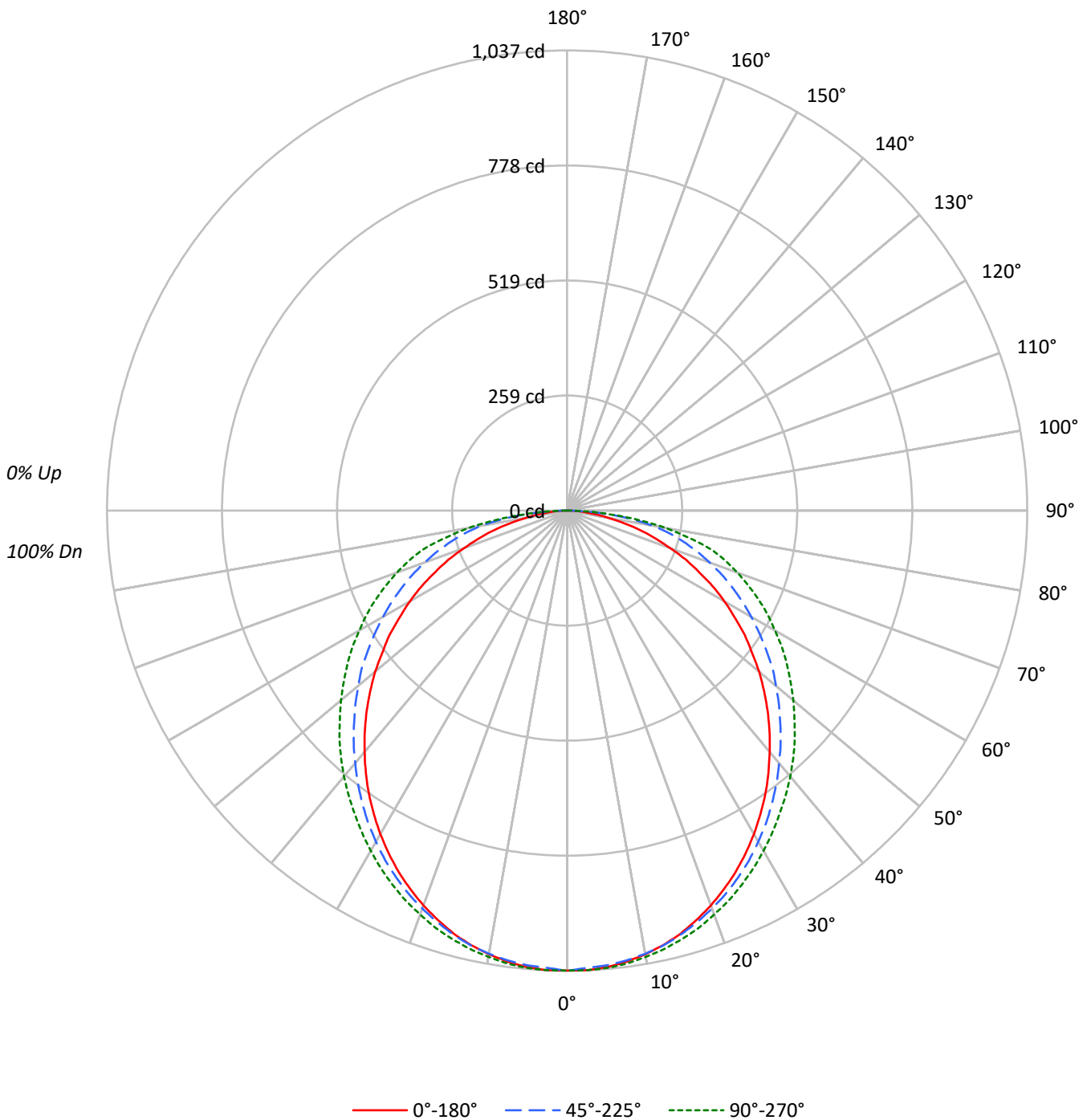
Input Watts (W): 26.04
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1395	1395	1395
5°	1395	1389	1397
10°	1387	1385	1395
15°	1375	1378	1392
20°	1356	1366	1387
25°	1334	1354	1382
30°	1308	1338	1375
35°	1280	1322	1371
40°	1247	1305	1374
45°	1216	1292	1380
50°	1182	1286	1393
55°	1146	1284	1419
60°	1101	1290	1456
65°	1043	1309	1519
70°	969	1342	1605
75°	884	1409	1741
80°	727	1517	1741
85°	557	1400	1496



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	3.2
10°-20°	279.9	9.1
20°-30°	421.2	13.6
30°-40°	504.8	16.3
40°-50°	526.0	17.0
50°-60°	489.4	15.9
60°-70°	403.1	13.1
70°-80°	274.5	8.9
80°-90°	90.6	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°	799.2	25.9
0°-40°	1304.0	42.2
0°-60°	2319.5	75.1
0°-90°	3087.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3087.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1037	1037	1037	1037	1037	
5°	1033	1033	1028	1034	1035	98
15°	987	988	989	999	1000	278
25°	899	903	912	928	931	414
35°	779	788	805	826	835	487
45°	639	652	679	713	726	493
55°	488	505	547	590	605	435
65°	328	356	411	460	477	325
75°	170	208	271	320	335	179
85°	36	70	91	97	97	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1036.7	1036.7	1036.7	1036.7	1036.7
2.5°	1036.7	1036.7	1031.5	1036.7	1036.7
5°	1032.6	1032.6	1028.5	1033.6	1034.6
7.5°	1025.4	1026.4	1022.3	1028.5	1029.5
10°	1015.1	1016.1	1014.0	1020.2	1021.2
12.5°	1002.7	1003.7	1003.7	1010.9	1012.0
15°	987.2	988.3	989.3	998.6	999.6
17.5°	967.7	970.7	972.8	984.1	986.2
20°	947.0	950.1	954.3	966.6	968.7
22.5°	923.3	927.5	934.7	948.1	951.2
25°	898.6	902.7	912.0	927.5	930.6
27.5°	870.8	877.0	888.3	904.8	908.9
30°	841.9	848.1	861.5	879.0	885.2
32.5°	811.0	819.3	834.7	854.3	860.5
35°	779.1	788.3	804.8	826.5	834.7
37.5°	745.1	755.4	774.9	798.7	809.0
40°	710.0	722.4	743.0	770.8	782.2
42.5°	675.0	686.3	712.1	742.0	754.3
45°	638.9	652.3	679.1	713.1	725.5
47.5°	601.8	615.2	647.2	683.2	694.6
50°	564.7	578.1	614.2	652.3	665.7
52.5°	524.5	542.1	583.3	621.4	634.8
55°	488.5	505.0	547.2	590.5	604.9
57.5°	447.2	466.8	513.2	558.5	574.0
60°	409.1	429.7	479.2	525.6	541.0
62.5°	370.0	392.6	445.2	492.6	510.1
65°	327.7	355.5	411.2	459.6	477.1
67.5°	289.6	318.4	377.2	426.6	442.1
70°	246.3	281.3	341.1	390.6	408.1
72.5°	209.2	244.2	307.1	355.5	373.0
75°	170.0	208.2	271.0	319.5	334.9
77.5°	130.9	173.1	236.0	273.1	278.2
80°	93.8	138.1	195.8	217.4	224.7
82.5°	66.0	106.1	144.3	158.7	162.8
85°	36.1	70.1	90.7	96.9	96.9
87.5°	15.5	29.9	36.1	37.1	38.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)