

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: P276051

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276051
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: 24CZ2-35HE-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3054.6 lumens
Efficiency: N/A
Efficacy: 126.3 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

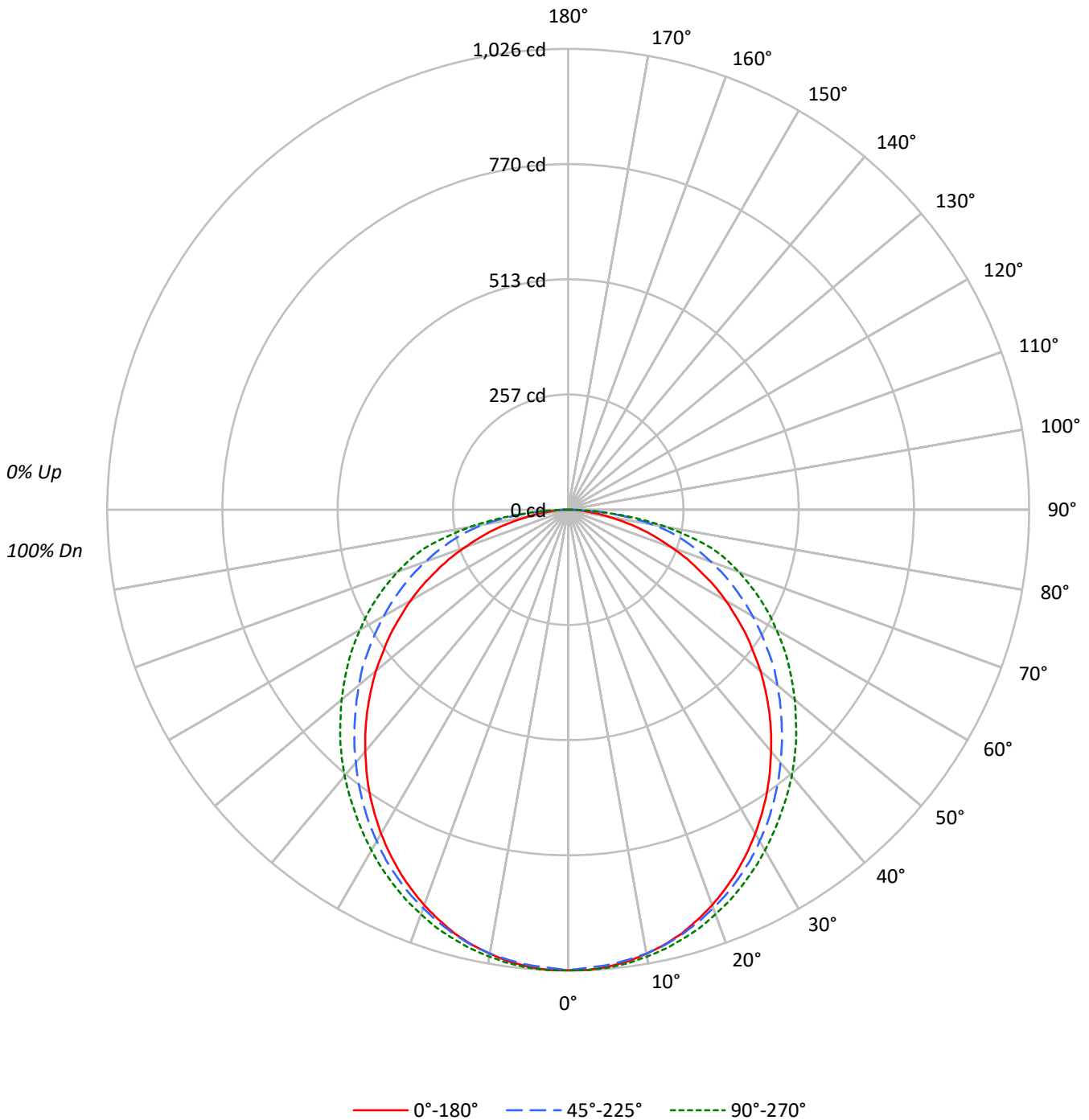
Input Watts (W): 24.18
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1380	1380	1380
5°	1380	1374	1382
10°	1372	1371	1380
15°	1360	1363	1377
20°	1341	1352	1372
25°	1320	1339	1367
30°	1294	1324	1361
35°	1266	1308	1356
40°	1234	1291	1359
45°	1203	1278	1366
50°	1169	1272	1379
55°	1133	1270	1404
60°	1089	1276	1440
65°	1032	1295	1503
70°	959	1327	1588
75°	874	1394	1722
80°	719	1501	1722
85°	551	1385	1479



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.0	3.2
10°-20°	276.9	9.1
20°-30°	416.7	13.6
30°-40°	499.4	16.3
40°-50°	520.4	17.0
50°-60°	484.2	15.9
60°-70°	398.8	13.1
70°-80°	271.6	8.9
80°-90°	89.7	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°	790.6	25.9
0°-40°	1290.0	42.2
0°-60°	2294.6	75.1
0°-90°	3054.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3054.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1026	1026	1026	1026	1026	
5°	1022	1022	1017	1022	1024	97
15°	977	978	979	988	989	275
25°	889	893	902	918	921	409
35°	771	780	796	818	826	482
45°	632	645	672	706	718	488
55°	483	500	541	584	598	431
65°	324	352	407	455	472	322
75°	168	206	268	316	331	177
85°	36	69	90	96	96	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1025.6	1025.6	1025.6	1025.6	1025.6
2.5°	1025.6	1025.6	1020.5	1025.6	1025.6
5°	1021.5	1021.5	1017.4	1022.5	1023.5
7.5°	1014.4	1015.4	1011.3	1017.4	1018.4
10°	1004.2	1005.2	1003.2	1009.3	1010.3
12.5°	991.9	993.0	993.0	1000.1	1001.1
15°	976.6	977.7	978.7	987.9	988.9
17.5°	957.3	960.3	962.4	973.6	975.6
20°	936.9	939.9	944.0	956.3	958.3
22.5°	913.4	917.5	924.7	937.9	941.0
25°	889.0	893.1	902.2	917.5	920.6
27.5°	861.4	867.6	878.8	895.1	899.2
30°	832.9	839.0	852.3	869.6	875.7
32.5°	802.3	810.5	825.8	845.1	851.3
35°	770.7	779.9	796.2	817.6	825.8
37.5°	737.1	747.3	766.6	790.1	800.3
40°	702.4	714.6	735.0	762.6	773.8
42.5°	667.8	679.0	704.5	734.0	746.2
45°	632.1	645.3	671.8	705.5	717.7
47.5°	595.4	608.6	640.2	675.9	687.1
50°	558.7	571.9	607.6	645.3	658.6
52.5°	518.9	536.2	577.0	614.7	628.0
55°	483.2	499.5	541.3	584.2	598.4
57.5°	442.4	461.8	507.7	552.6	567.8
60°	404.7	425.1	474.1	519.9	535.2
62.5°	366.0	388.4	440.4	487.3	504.6
65°	324.2	351.7	406.8	454.7	472.0
67.5°	286.5	315.0	373.1	422.1	437.4
70°	243.7	278.3	337.4	386.4	403.7
72.5°	207.0	241.6	303.8	351.7	369.0
75°	168.2	205.9	268.1	316.0	331.3
77.5°	129.5	171.3	233.5	270.2	275.3
80°	92.8	136.6	193.7	215.1	222.2
82.5°	65.2	105.0	142.7	157.0	161.1
85°	35.7	69.3	89.7	95.8	95.8
87.5°	15.3	29.6	35.7	36.7	37.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)