

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: P275969

Luminaire Tested: **24CZ2-30HE-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275969
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: 24CZ2-30HE-UNV-L93050-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2666.0 lumens
Efficiency: N/A
Efficacy: 132.4 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

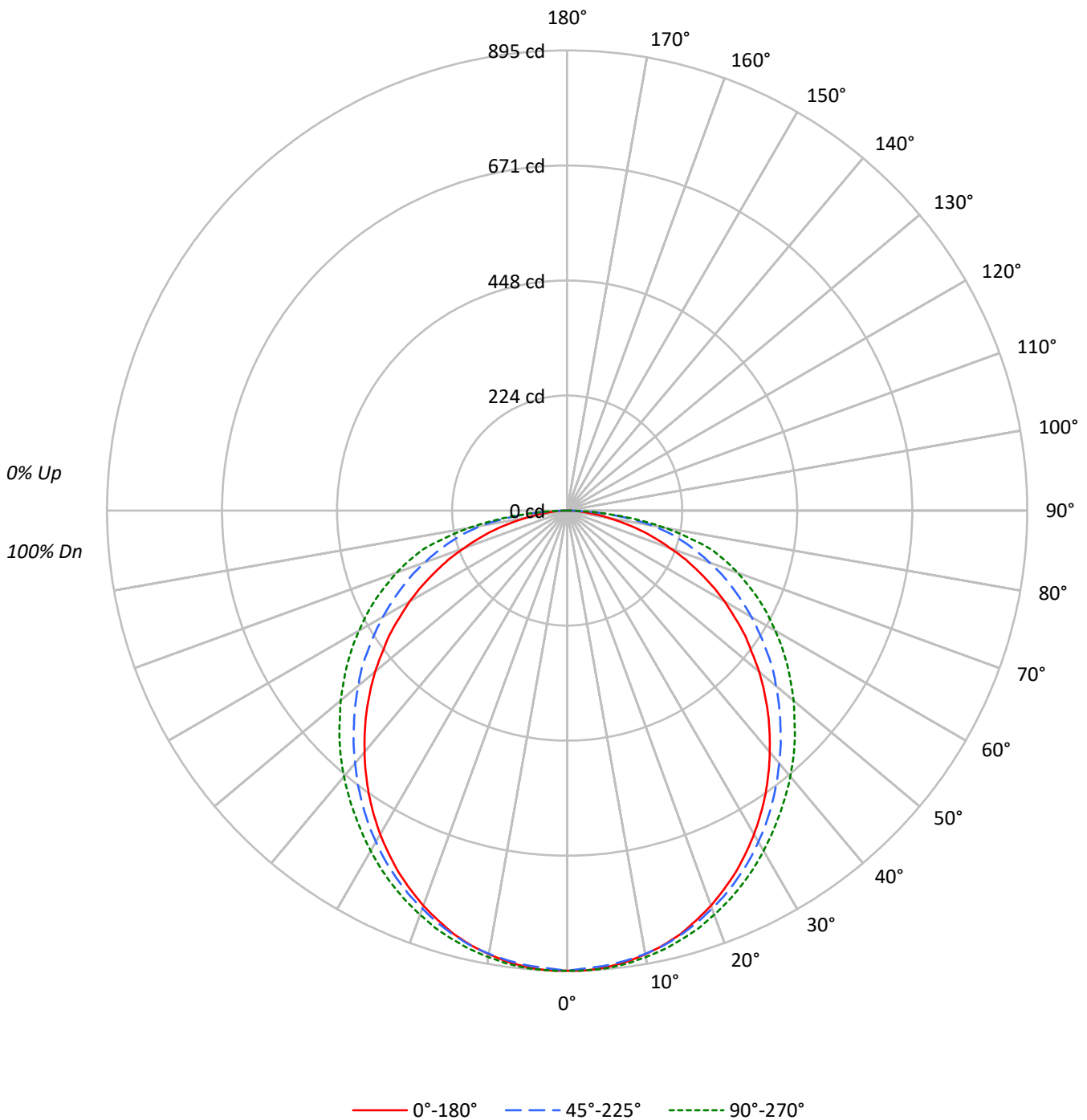
Input Watts (W): 20.133198
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1204	1204	1204
5°	1204	1199	1207
10°	1197	1196	1205
15°	1187	1190	1202
20°	1171	1180	1198
25°	1152	1169	1193
30°	1129	1156	1187
35°	1105	1141	1184
40°	1077	1127	1186
45°	1050	1116	1192
50°	1021	1110	1203
55°	989	1108	1225
60°	950	1114	1257
65°	901	1130	1312
70°	837	1159	1386
75°	763	1216	1503
80°	628	1310	1503
85°	480	1209	1291



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.7	3.2
10°-20°	241.7	9.1
20°-30°	363.7	13.6
30°-40°	435.9	16.3
40°-50°	454.2	17.0
50°-60°	422.6	15.9
60°-70°	348.1	13.1
70°-80°	237.0	8.9
80°-90°	78.2	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°	690.1	25.9
0°-40°	1125.9	42.2
0°-60°	2002.7	75.1
0°-90°	2666.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2666.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	895	895	895	895	895	
5°	892	892	888	892	893	85
15°	852	853	854	862	863	240
25°	776	780	788	801	804	357
35°	673	681	695	714	721	420
45°	552	563	586	616	626	425
55°	422	436	472	510	522	376
65°	283	307	355	397	412	281
75°	147	180	234	276	289	155
85°	31	60	78	84	84	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	895.1	895.1	895.1	895.1	895.1
2.5°	895.1	895.1	890.7	895.1	895.1
5°	891.6	891.6	888.0	892.5	893.3
7.5°	885.3	886.2	882.7	888.0	888.9
10°	876.4	877.3	875.5	880.9	881.8
12.5°	865.8	866.7	866.7	872.9	873.8
15°	852.4	853.3	854.2	862.2	863.1
17.5°	835.5	838.2	840.0	849.7	851.5
20°	817.7	820.4	823.9	834.6	836.4
22.5°	797.2	800.8	807.0	818.6	821.3
25°	775.9	779.5	787.5	800.8	803.5
27.5°	751.9	757.2	767.0	781.2	784.8
30°	727.0	732.3	743.9	759.0	764.3
32.5°	700.3	707.4	720.7	737.6	743.0
35°	672.7	680.7	694.9	713.6	720.7
37.5°	643.3	652.2	669.1	689.6	698.5
40°	613.1	623.7	641.5	665.6	675.3
42.5°	582.8	592.6	614.8	640.6	651.3
45°	551.7	563.2	586.4	615.7	626.4
47.5°	519.6	531.2	558.8	589.9	599.7
50°	487.6	499.2	530.3	563.2	574.8
52.5°	452.9	468.0	503.6	536.5	548.1
55°	421.8	436.0	472.5	509.8	522.3
57.5°	386.2	403.1	443.1	482.3	495.6
60°	353.2	371.0	413.8	453.8	467.1
62.5°	319.4	339.0	384.4	425.3	440.4
65°	283.0	307.0	355.0	396.8	412.0
67.5°	250.0	274.9	325.7	368.4	381.7
70°	212.7	242.9	294.5	337.2	352.4
72.5°	180.6	210.9	265.2	307.0	322.1
75°	146.8	179.7	234.0	275.8	289.2
77.5°	113.0	149.5	203.8	235.8	240.2
80°	81.0	119.2	169.1	187.7	194.0
82.5°	56.9	91.6	124.6	137.0	140.6
85°	31.1	60.5	78.3	83.6	83.6
87.5°	13.3	25.8	31.1	32.0	32.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)