

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: P275973

Luminaire Tested: **24CZ2-35HE-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275973
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-L93050-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2829.6 lumens
Efficiency: N/A
Efficacy: 114.8 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

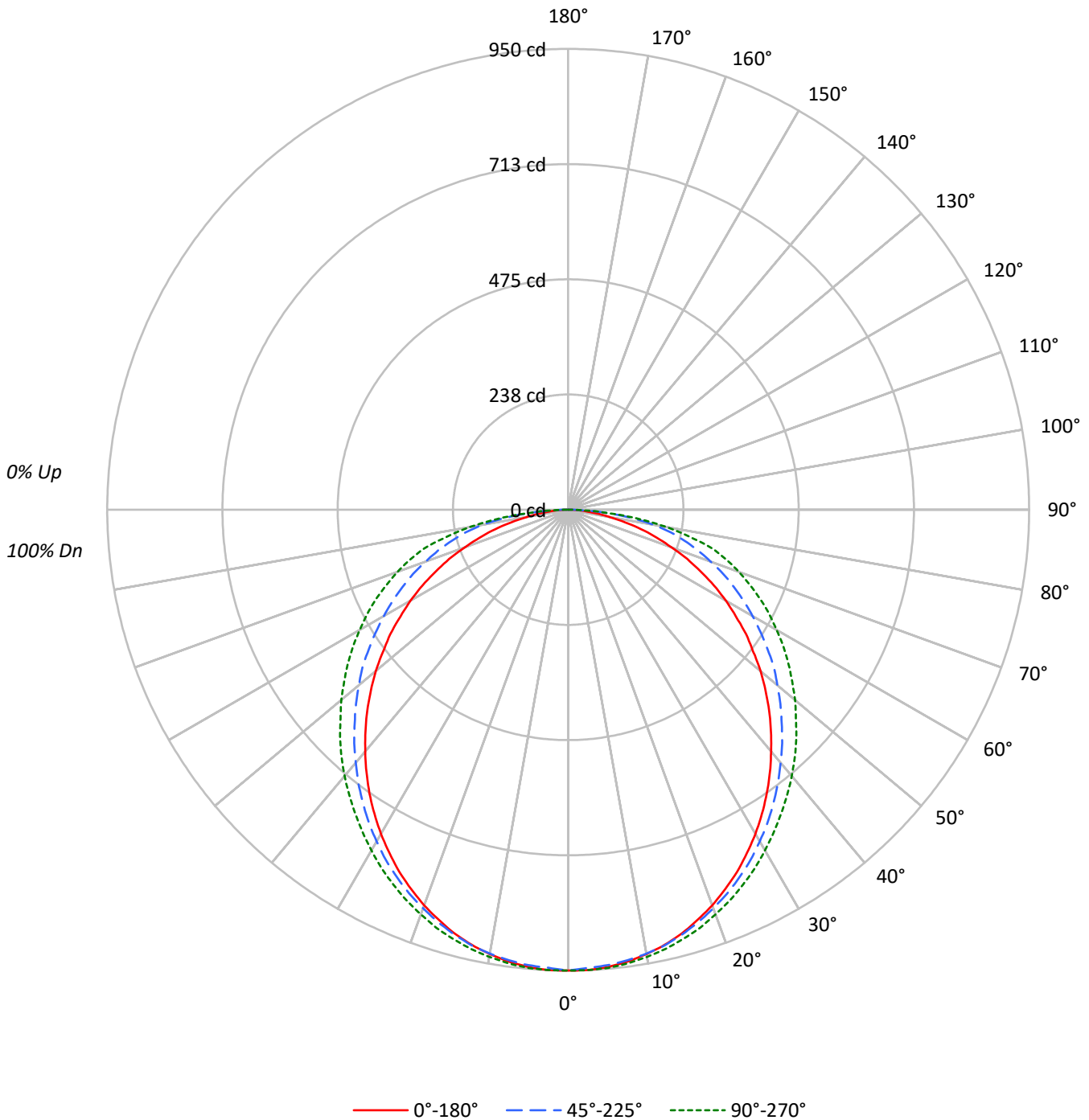
Input Watts (W): 24.63942
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1278	1278	1278
5°	1278	1273	1281
10°	1271	1270	1279
15°	1260	1263	1276
20°	1243	1252	1271
25°	1223	1241	1266
30°	1199	1227	1260
35°	1173	1212	1256
40°	1143	1196	1259
45°	1114	1184	1265
50°	1083	1178	1277
55°	1050	1176	1300
60°	1009	1182	1334
65°	956	1200	1392
70°	888	1230	1471
75°	810	1291	1595
80°	666	1390	1595
85°	511	1283	1371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.9	3.2
10°-20°	256.5	9.1
20°-30°	386.0	13.6
30°-40°	462.6	16.3
40°-50°	482.1	17.0
50°-60°	448.5	15.9
60°-70°	369.4	13.1
70°-80°	251.6	8.9
80°-90°	83.1	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°	732.4	25.9
0°-40°	1195.0	42.2
0°-60°	2125.6	75.1
0°-90°	2829.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2829.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	950	950	950	950	950	
5°	946	946	942	947	948	90
15°	905	906	907	915	916	255
25°	824	827	836	850	853	379
35°	714	722	738	757	765	446
45°	586	598	622	654	665	452
55°	448	463	502	541	554	399
65°	300	326	377	421	437	298
75°	156	191	248	293	307	164
85°	33	64	83	89	89	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	950.0	950.0	950.0	950.0	950.0
2.5°	950.0	950.0	945.3	950.0	950.0
5°	946.3	946.3	942.5	947.2	948.1
7.5°	939.6	940.6	936.8	942.5	943.4
10°	930.2	931.2	929.3	934.9	935.9
12.5°	918.9	919.8	919.8	926.4	927.4
15°	904.7	905.7	906.6	915.1	916.0
17.5°	886.8	889.6	891.5	901.9	903.8
20°	867.9	870.7	874.5	885.8	887.7
22.5°	846.2	849.9	856.5	868.8	871.7
25°	823.5	827.3	835.8	849.9	852.8
27.5°	798.0	803.7	814.0	829.2	832.9
30°	771.6	777.2	789.5	805.5	811.2
32.5°	743.2	750.8	764.9	782.9	788.6
35°	713.9	722.4	737.6	757.4	764.9
37.5°	682.8	692.2	710.2	731.9	741.3
40°	650.7	662.0	680.9	706.4	716.8
42.5°	618.6	629.0	652.6	679.9	691.3
45°	585.5	597.8	622.3	653.5	664.8
47.5°	551.5	563.8	593.1	626.1	636.5
50°	517.5	529.8	562.8	597.8	610.1
52.5°	480.7	496.7	534.5	569.5	581.7
55°	447.6	462.7	501.5	541.1	554.3
57.5°	409.9	427.8	470.3	511.8	526.0
60°	374.9	393.8	439.1	481.6	495.8
62.5°	339.0	359.8	408.0	451.4	467.5
65°	300.3	325.8	376.8	421.2	437.2
67.5°	265.4	291.8	345.6	391.0	405.1
70°	225.7	257.8	312.6	357.9	374.0
72.5°	191.7	223.8	281.4	325.8	341.9
75°	155.8	190.8	248.4	292.8	306.9
77.5°	119.9	158.7	216.3	250.3	255.0
80°	85.9	126.5	179.4	199.3	205.9
82.5°	60.4	97.3	132.2	145.4	149.2
85°	33.1	64.2	83.1	88.8	88.8
87.5°	14.2	27.4	33.1	34.0	34.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)