

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: P276749

Luminaire Tested: **24CZ2-45HE-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276749
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: 24CZ2-45HE-RDP-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2996.0 lumens
Efficiency: N/A
Efficacy: 93.2 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

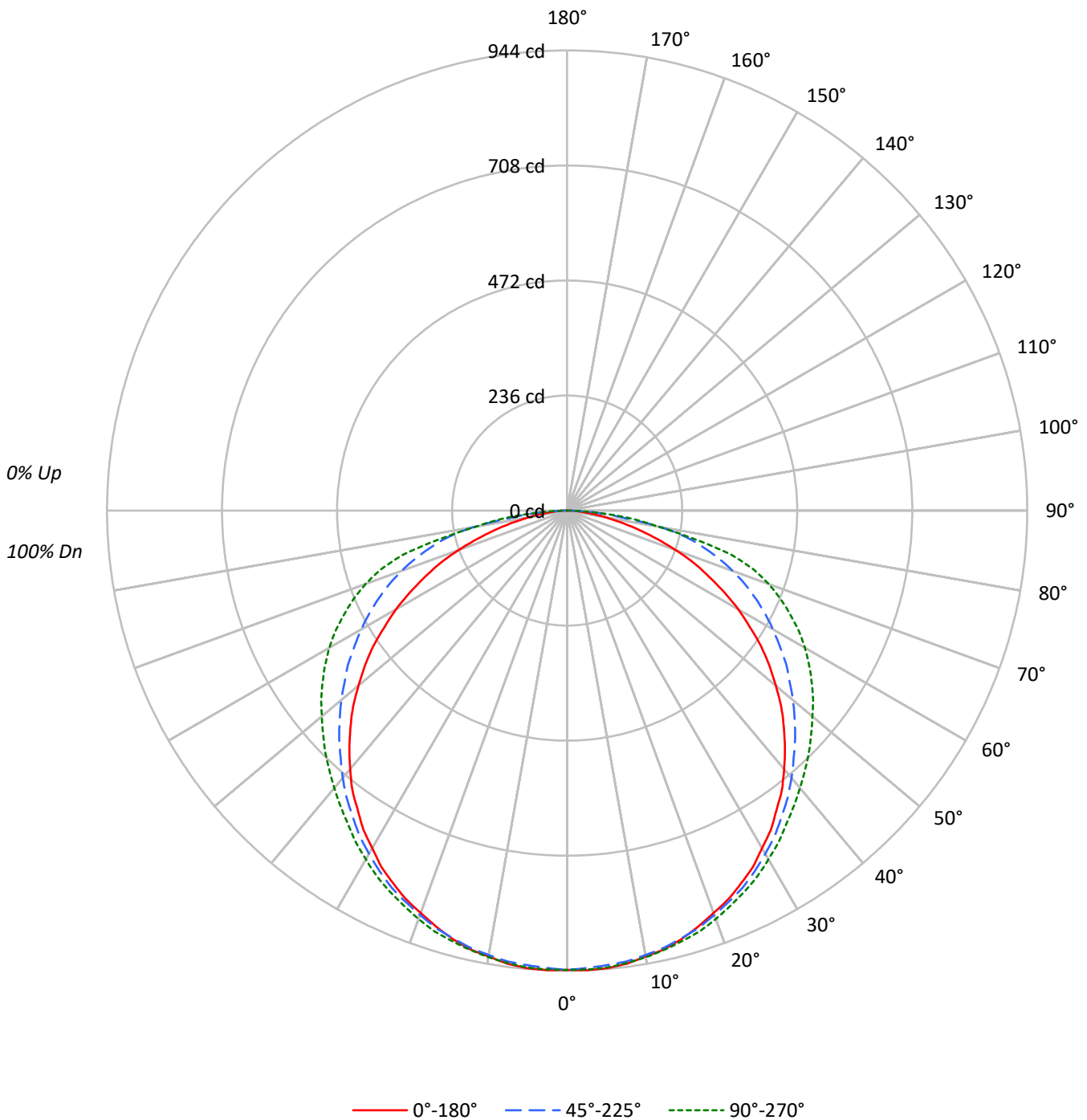
Input Watts (W): 32.156982
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1268	1268	1268
5°	1273	1264	1271
10°	1269	1265	1271
15°	1267	1265	1273
20°	1258	1264	1277
25°	1253	1266	1280
30°	1242	1263	1284
35°	1230	1259	1289
40°	1216	1258	1305
45°	1196	1258	1335
50°	1170	1266	1375
55°	1140	1286	1436
60°	1092	1312	1516
65°	1022	1358	1609
70°	930	1421	1731
75°	788	1499	1808
80°	621	1509	1462
85°	459	1147	1284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.4	3.0
10°-20°	257.2	8.6
20°-30°	393.3	13.1
30°-40°	480.9	16.0
40°-50°	512.5	17.1
50°-60°	490.0	16.4
60°-70°	415.1	13.9
70°-80°	279.0	9.3
80°-90°	78.7	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°	739.9	24.7
0°-40°	1220.8	40.7
0°-60°	2223.2	74.2
0°-90°	2996.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2996.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	942	942	942	942	942	
5°	942	941	936	941	941	90
15°	910	910	908	915	914	256
25°	844	847	853	860	862	389
35°	749	755	767	782	785	469
45°	629	639	661	690	701	485
55°	486	504	548	591	612	433
65°	321	354	426	483	505	319
75°	152	207	288	337	348	162
85°	30	61	74	80	83	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	942.2	942.2	942.2	942.2	942.2
2.5°	943.6	943.6	939.2	942.2	942.2
5°	942.2	940.7	936.2	940.7	940.7
7.5°	937.7	936.2	933.2	937.7	936.2
10°	928.8	928.8	925.8	930.3	930.3
12.5°	921.4	919.9	918.4	924.3	922.8
15°	909.5	909.5	908.0	915.4	913.9
17.5°	894.6	896.1	897.6	903.5	905.0
20°	878.3	881.2	882.7	891.6	891.6
22.5°	863.4	864.9	867.9	876.8	876.8
25°	844.1	847.0	853.0	860.4	861.9
27.5°	824.8	826.2	833.7	844.1	845.6
30°	799.5	804.0	812.9	824.8	826.2
32.5°	777.2	781.7	792.1	804.0	806.9
35°	749.0	754.9	766.8	781.7	784.6
37.5°	723.7	728.2	743.0	759.4	763.8
40°	692.5	701.4	716.3	735.6	743.0
42.5°	661.3	670.2	688.0	713.3	722.2
45°	628.6	639.0	661.3	689.5	701.4
47.5°	595.9	607.8	633.1	665.8	679.1
50°	558.8	573.6	604.8	642.0	656.8
52.5°	523.1	540.9	575.1	616.7	636.0
55°	485.9	503.8	548.4	591.4	612.3
57.5°	444.3	468.1	517.1	566.2	588.5
60°	405.7	428.0	487.4	540.9	563.2
62.5°	364.1	393.8	457.7	514.2	536.5
65°	321.0	353.7	426.5	483.0	505.3
67.5°	282.3	318.0	395.3	451.8	474.1
70°	236.3	280.9	361.1	417.6	439.9
72.5°	193.2	242.2	325.4	380.4	401.2
75°	151.6	206.6	288.3	337.3	347.7
77.5°	112.9	170.9	249.7	270.5	263.0
80°	80.2	136.7	194.7	184.3	188.7
82.5°	52.0	104.0	120.4	136.7	141.2
85°	29.7	60.9	74.3	80.2	83.2
87.5°	13.4	22.3	29.7	29.7	28.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)