

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: P276833

Luminaire Tested: **24CZ2-55HE-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276833
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: 24CZ2-55HE-RDP-UNV-L93050-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3001.5 lumens
Efficiency: N/A
Efficacy: 73.5 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

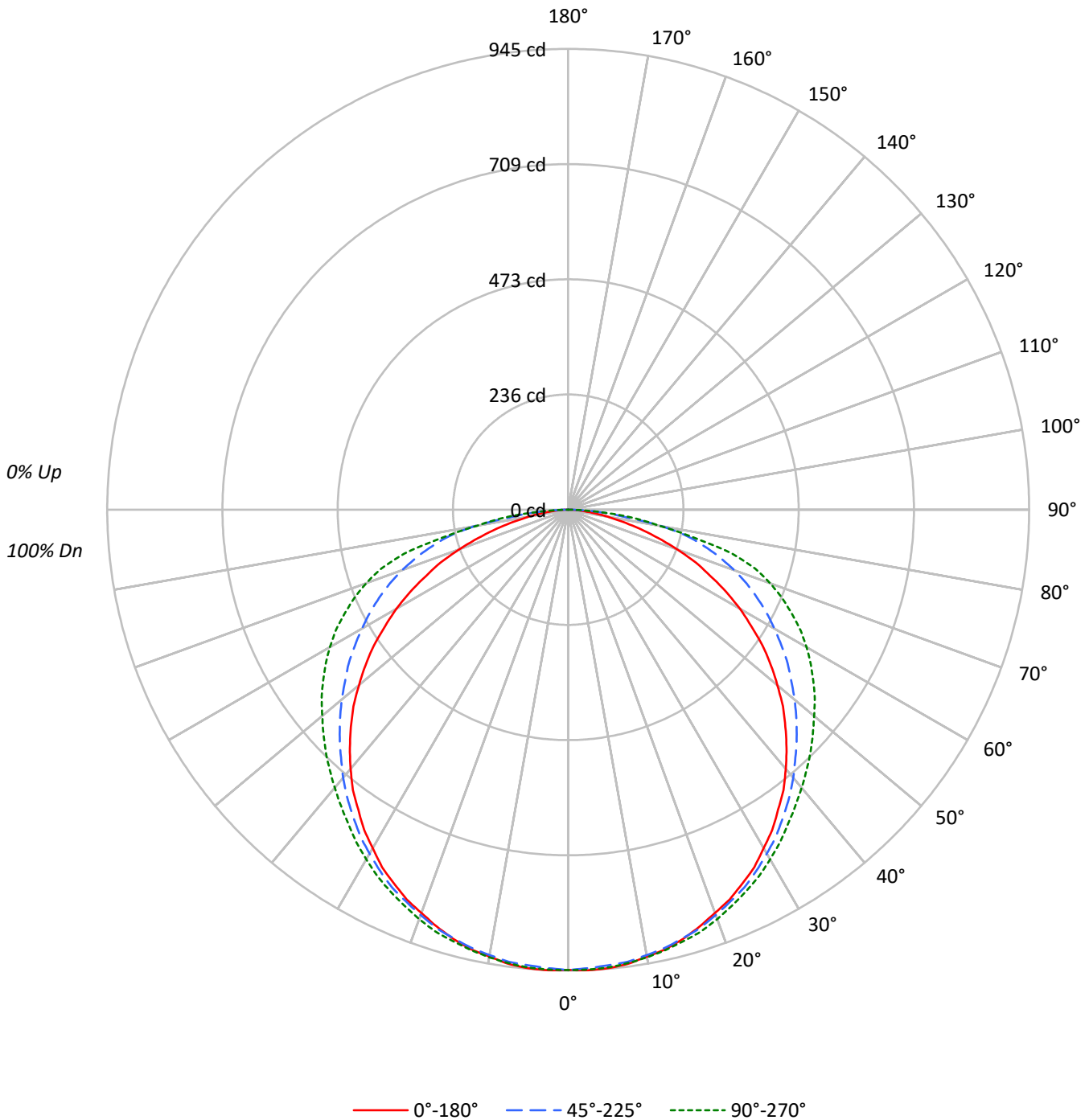
Input Watts (W): 40.844577
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1270	1270	1270
5°	1275	1267	1273
10°	1271	1267	1273
15°	1269	1267	1275
20°	1260	1266	1279
25°	1255	1269	1282
30°	1244	1265	1286
35°	1232	1262	1291
40°	1219	1260	1307
45°	1198	1261	1337
50°	1172	1268	1377
55°	1142	1289	1439
60°	1094	1314	1518
65°	1024	1360	1612
70°	931	1423	1734
75°	790	1501	1811
80°	623	1511	1465
85°	460	1149	1288



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.5	3.0
10°-20°	257.7	8.6
20°-30°	394.1	13.1
30°-40°	481.7	16.0
40°-50°	513.4	17.1
50°-60°	490.9	16.4
60°-70°	415.8	13.9
70°-80°	279.5	9.3
80°-90°	78.8	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°	741.3	24.7
0°-40°	1223.0	40.7
0°-60°	2227.3	74.2
0°-90°	3001.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3001.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	944	944	944	944	944	
5°	944	942	938	942	942	90
15°	911	911	910	917	916	257
25°	846	849	855	862	864	390
35°	750	756	768	783	786	470
45°	630	640	662	691	703	486
55°	487	505	549	592	613	434
65°	322	354	427	484	506	319
75°	152	207	289	338	348	163
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°	943.9	943.9	943.9	943.9	943.9
2.5°	945.4	945.4	940.9	943.9	943.9
5°	943.9	942.4	937.9	942.4	942.4
7.5°	939.4	937.9	934.9	939.4	937.9
10°	930.5	930.5	927.5	932.0	932.0
12.5°	923.0	921.5	920.1	926.0	924.5
15°	911.1	911.1	909.6	917.1	915.6
17.5°	896.2	897.7	899.2	905.2	906.7
20°	879.9	882.8	884.3	893.3	893.3
22.5°	865.0	866.5	869.4	878.4	878.4
25°	845.6	848.6	854.6	862.0	863.5
27.5°	826.3	827.8	835.2	845.6	847.1
30°	801.0	805.4	814.4	826.3	827.8
32.5°	778.6	783.1	793.5	805.4	808.4
35°	750.3	756.3	768.2	783.1	786.1
37.5°	725.0	729.5	744.4	760.8	765.2
40°	693.8	702.7	717.6	736.9	744.4
42.5°	662.5	671.4	689.3	714.6	723.5
45°	629.8	640.2	662.5	690.8	702.7
47.5°	597.0	608.9	634.2	667.0	680.4
50°	559.8	574.7	605.9	643.1	658.0
52.5°	524.0	541.9	576.2	617.8	637.2
55°	486.8	504.7	549.4	592.5	613.4
57.5°	445.1	469.0	518.1	567.2	589.6
60°	406.4	428.8	488.3	541.9	564.2
62.5°	364.7	394.5	458.5	515.1	537.4
65°	321.6	354.3	427.3	483.9	506.2
67.5°	282.9	318.6	396.0	452.6	474.9
70°	236.7	281.4	361.8	418.3	440.7
72.5°	193.5	242.7	326.0	381.1	402.0
75°	151.9	206.9	288.8	338.0	348.4
77.5°	113.1	171.2	250.1	271.0	263.5
80°	80.4	137.0	195.0	184.6	189.1
82.5°	52.1	104.2	120.6	137.0	141.4
85°	29.8	61.0	74.4	80.4	83.4
87.5°	13.4	22.3	29.8	29.8	28.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)