

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: P475041

Luminaire Tested: **22CZ2-65VHE-RDP-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475041
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-65VHE-RDP-UNV-L835-CD1-U
Description: 2'X2' TROFFER LED MODULE, VERY HIGH EFFICIENCY,SMOOTH LENS W/ RDP
INSERT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4360.5 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

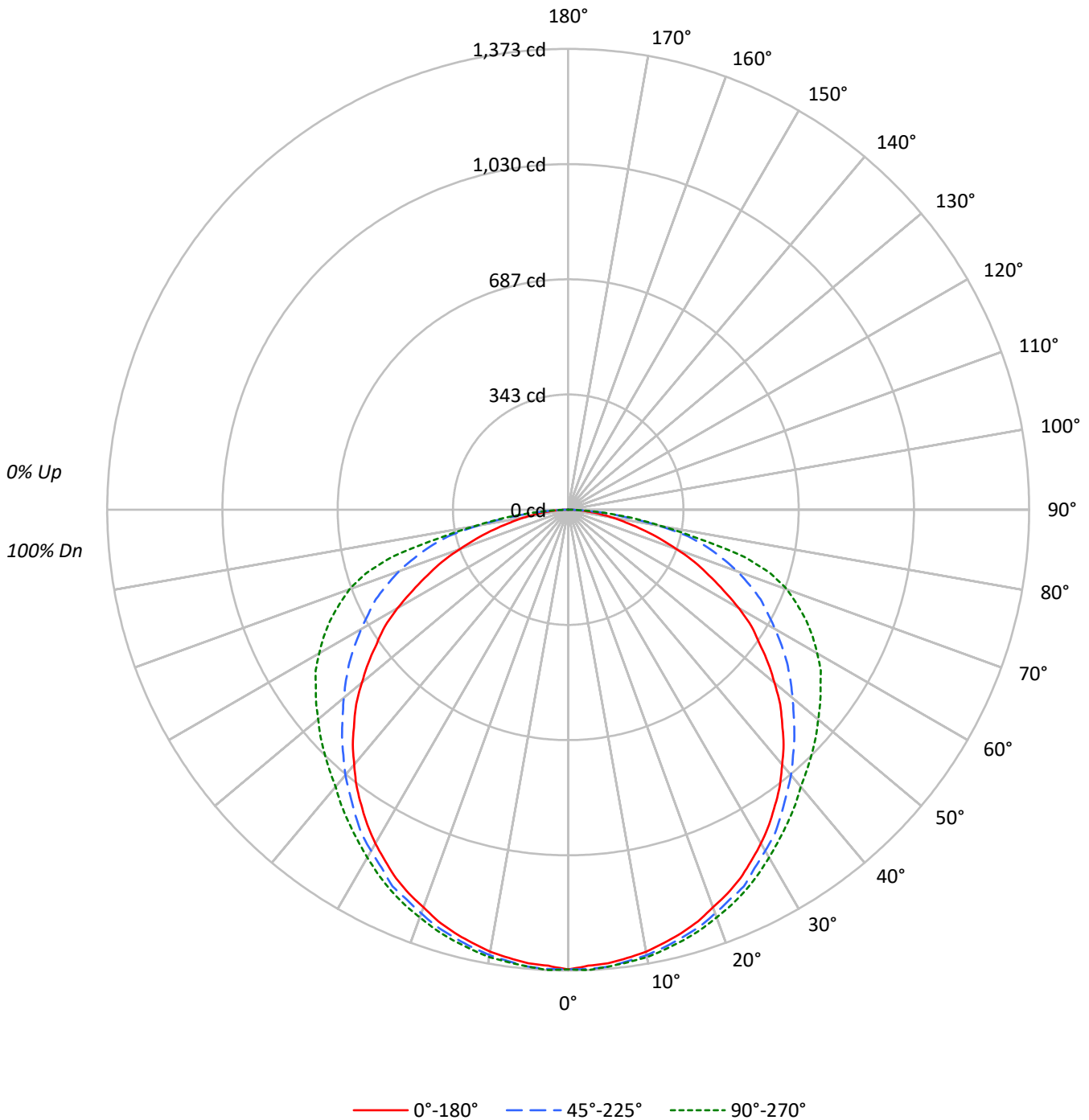
Input Watts (W): 45.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	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°	3686	3686	3686
5°	3665	3691	3691
10°	3654	3681	3699
15°	3637	3673	3699
20°	3610	3665	3702
25°	3600	3677	3715
30°	3568	3648	3718
35°	3530	3636	3741
40°	3482	3628	3786
45°	3430	3626	3906
50°	3357	3652	4068
55°	3266	3733	4304
60°	3160	3832	4610
65°	2941	4025	4984
70°	2701	4216	5452
75°	2370	4434	5637
80°	2039	4223	4426
85°	1782	3069	3365



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.6	3.0
10°-20°	372.0	8.5
20°-30°	567.6	13.0
30°-40°	693.0	15.9
40°-50°	741.0	17.0
50°-60°	715.2	16.4
60°-70°	615.7	14.1
70°-80°	416.6	9.6
80°-90°	109.9	2.5
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°	1069.1	24.5
0°-40°	1762.1	40.4
0°-60°	3218.3	73.8
0°-90°	4360.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4360.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1370	1370	1370	1370	1370	
5°	1357	1360	1366	1366	1366	129
15°	1306	1309	1318	1325	1328	368
25°	1212	1219	1238	1245	1251	558
35°	1074	1084	1107	1129	1139	672
45°	901	917	953	1001	1026	696
55°	696	718	796	876	917	624
65°	462	507	632	731	783	459
75°	228	302	426	513	542	244
85°	58	80	99	103	109	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1369.6	1369.6	1369.6	1369.6	1369.6
2.5°	1360.1	1363.2	1369.6	1369.6	1372.8
5°	1356.9	1360.1	1366.4	1366.4	1366.4
7.5°	1347.3	1350.5	1356.9	1360.1	1360.1
10°	1337.4	1340.9	1347.3	1350.5	1353.7
12.5°	1321.5	1324.7	1334.2	1340.9	1340.9
15°	1305.6	1308.7	1318.3	1324.7	1327.9
17.5°	1286.1	1292.8	1302.4	1308.7	1311.9
20°	1260.6	1267.0	1279.7	1289.6	1292.8
22.5°	1238.3	1244.7	1257.4	1267.0	1273.4
25°	1212.5	1218.9	1238.3	1244.7	1251.1
27.5°	1180.3	1187.0	1202.9	1215.7	1225.2
30°	1148.4	1154.8	1173.9	1190.2	1196.5
32.5°	1113.0	1122.6	1145.2	1158.0	1167.5
35°	1074.5	1084.0	1106.7	1129.0	1138.9
37.5°	1036.2	1045.8	1068.1	1097.1	1109.9
40°	991.3	1004.0	1032.7	1071.3	1077.7
42.5°	949.5	965.5	991.3	1036.2	1052.2
45°	901.4	917.3	952.7	1000.8	1026.3
47.5°	856.5	872.4	911.0	968.7	1000.8
50°	801.9	824.3	872.4	940.0	971.8
52.5°	750.6	769.8	834.1	907.8	946.3
55°	696.1	718.4	795.6	875.6	917.3
57.5°	648.0	667.1	753.8	843.7	891.8
60°	587.1	612.6	712.1	808.3	856.5
62.5°	522.7	561.3	670.3	769.8	821.1
65°	461.9	506.8	632.1	731.2	782.8
67.5°	407.3	455.5	583.9	689.8	737.9
70°	343.3	404.2	535.8	638.4	692.9
72.5°	285.6	352.8	481.3	583.9	632.1
75°	227.9	301.5	426.5	513.2	542.2
77.5°	176.3	247.0	365.6	391.4	394.6
80°	131.6	195.7	272.5	275.7	285.6
82.5°	89.9	138.0	176.3	192.5	195.7
85°	57.7	80.3	99.4	102.6	109.0
87.5°	25.8	29.0	35.4	32.2	32.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)