

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: P474218

Luminaire Tested: **24CZ2-65-RDP-UNV-L835-CD1-U**

Issue Date: 01/28/2021

Test Information

Test Method: LM-79-08
Report Number: P474218
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/28/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-65-RDP-UNV-L835-CD1-U
Description: 2'X4' TROFFER LED MODULE, SMOOTH LENS W/ RDP INSERT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

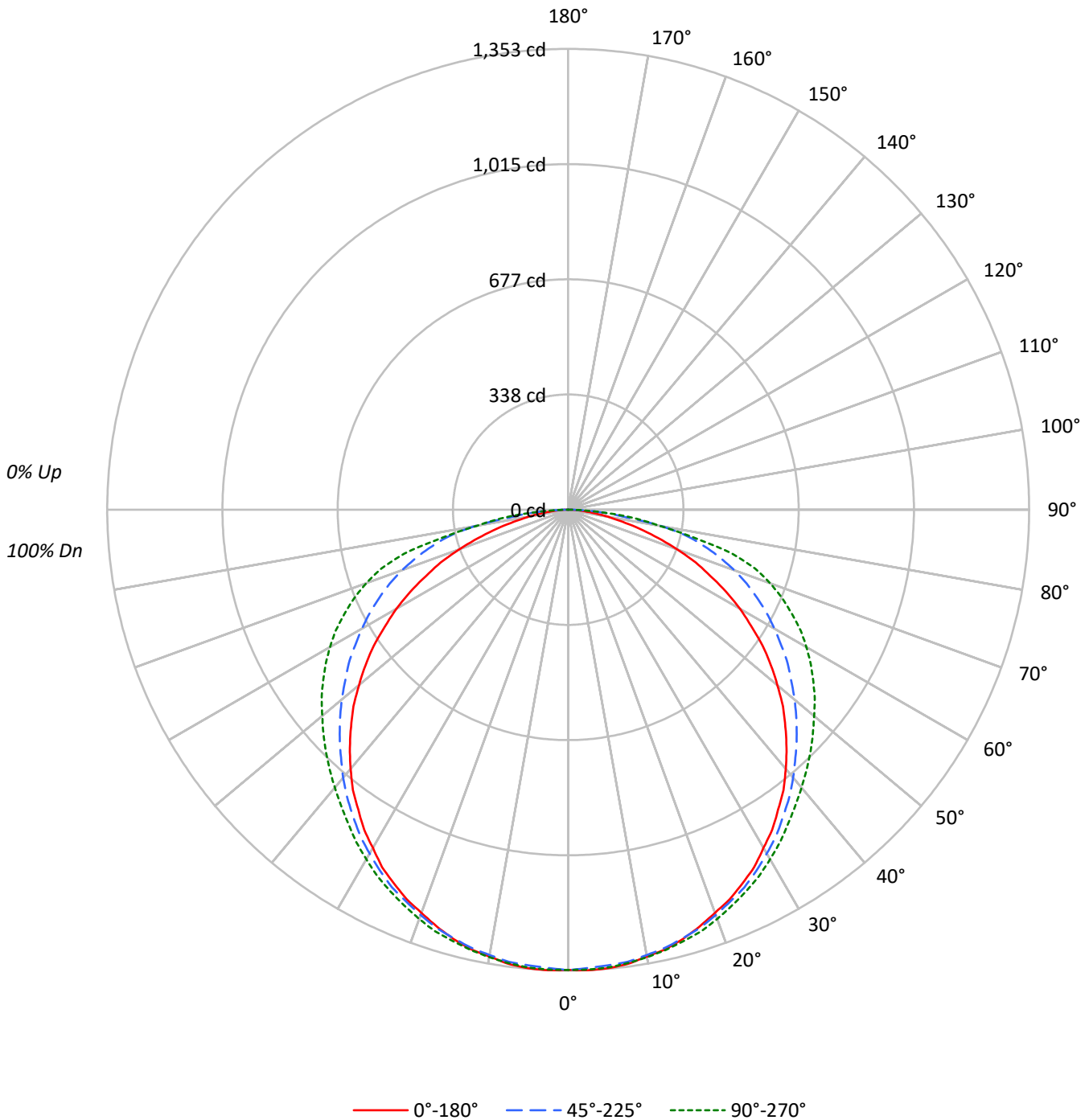
Lumens per Lamp: N/A
Luminaire Lumens: 4296.8 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 51
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°	1818	1818	1818
5°	1825	1813	1822
10°	1820	1814	1823
15°	1817	1814	1826
20°	1804	1813	1831
25°	1797	1816	1835
30°	1781	1811	1841
35°	1764	1806	1848
40°	1745	1804	1871
45°	1716	1805	1914
50°	1677	1816	1972
55°	1635	1845	2060
60°	1566	1881	2174
65°	1466	1947	2307
70°	1333	2038	2482
75°	1130	2150	2593
80°	892	2163	2097
85°	658	1646	1843



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.2	3.0
10°-20°	368.9	8.6
20°-30°	564.1	13.1
30°-40°	689.6	16.0
40°-50°	735.0	17.1
50°-60°	702.7	16.4
60°-70°	595.3	13.9
70°-80°	400.1	9.3
80°-90°	112.9	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°	1061.2	24.7
0°-40°	1750.8	40.7
0°-60°	3188.5	74.2
0°-90°	4296.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4296.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1351	1351	1351	1351	1351	
5°	1351	1349	1343	1349	1349	128
15°	1304	1304	1302	1313	1311	368
25°	1210	1215	1223	1234	1236	558
35°	1074	1083	1100	1121	1125	673
45°	902	916	948	989	1006	695
55°	697	722	786	848	878	621
65°	460	507	612	693	725	457
75°	217	296	414	484	499	233
85°	43	87	107	115	119	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1351.3	1351.3	1351.3	1351.3	1351.3
2.5°	1353.4	1353.4	1347.0	1351.3	1351.3
5°	1351.3	1349.1	1342.7	1349.1	1349.1
7.5°	1344.9	1342.7	1338.5	1344.9	1342.7
10°	1332.1	1332.1	1327.8	1334.2	1334.2
12.5°	1321.4	1319.3	1317.2	1325.7	1323.6
15°	1304.4	1304.4	1302.2	1312.9	1310.8
17.5°	1283.0	1285.2	1287.3	1295.8	1298.0
20°	1259.6	1263.9	1266.0	1278.8	1278.8
22.5°	1238.3	1240.4	1244.7	1257.5	1257.5
25°	1210.5	1214.8	1223.3	1234.0	1236.1
27.5°	1182.8	1185.0	1195.6	1210.5	1212.7
30°	1146.6	1153.0	1165.8	1182.8	1185.0
32.5°	1114.6	1121.0	1135.9	1153.0	1157.2
35°	1074.1	1082.6	1099.7	1121.0	1125.2
37.5°	1037.8	1044.2	1065.5	1089.0	1095.4
40°	993.3	1005.8	1027.2	1054.9	1065.5
42.5°	948.5	961.3	986.9	1022.9	1035.7
45°	901.6	916.5	948.5	989.0	1005.8
47.5°	854.7	871.7	908.0	954.9	974.1
50°	801.3	822.7	867.4	920.8	942.1
52.5°	750.2	775.8	824.8	884.5	912.2
55°	696.9	722.4	786.4	848.3	878.1
57.5°	637.1	671.3	741.6	812.0	844.0
60°	581.9	613.7	699.0	775.8	807.7
62.5°	522.2	564.9	656.3	737.4	769.4
65°	460.4	507.3	611.6	692.6	724.6
67.5°	404.9	456.1	567.0	647.8	679.8
70°	338.8	402.8	518.0	598.8	630.8
72.5°	277.0	347.4	466.8	545.7	575.5
75°	217.3	296.2	413.5	483.8	498.8
77.5°	162.1	245.0	358.0	387.9	377.2
80°	115.1	196.2	279.1	264.2	270.6
82.5°	74.6	149.3	172.7	196.2	202.4
85°	42.6	87.4	106.6	115.1	119.4
87.5°	19.2	32.0	42.6	42.6	40.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)