

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: P475045

Luminaire Tested: **22CZ2-85VHE-RDP-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475045
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-85VHE-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: 5740.0 lumens
Efficiency: N/A
Efficacy: 91.0 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

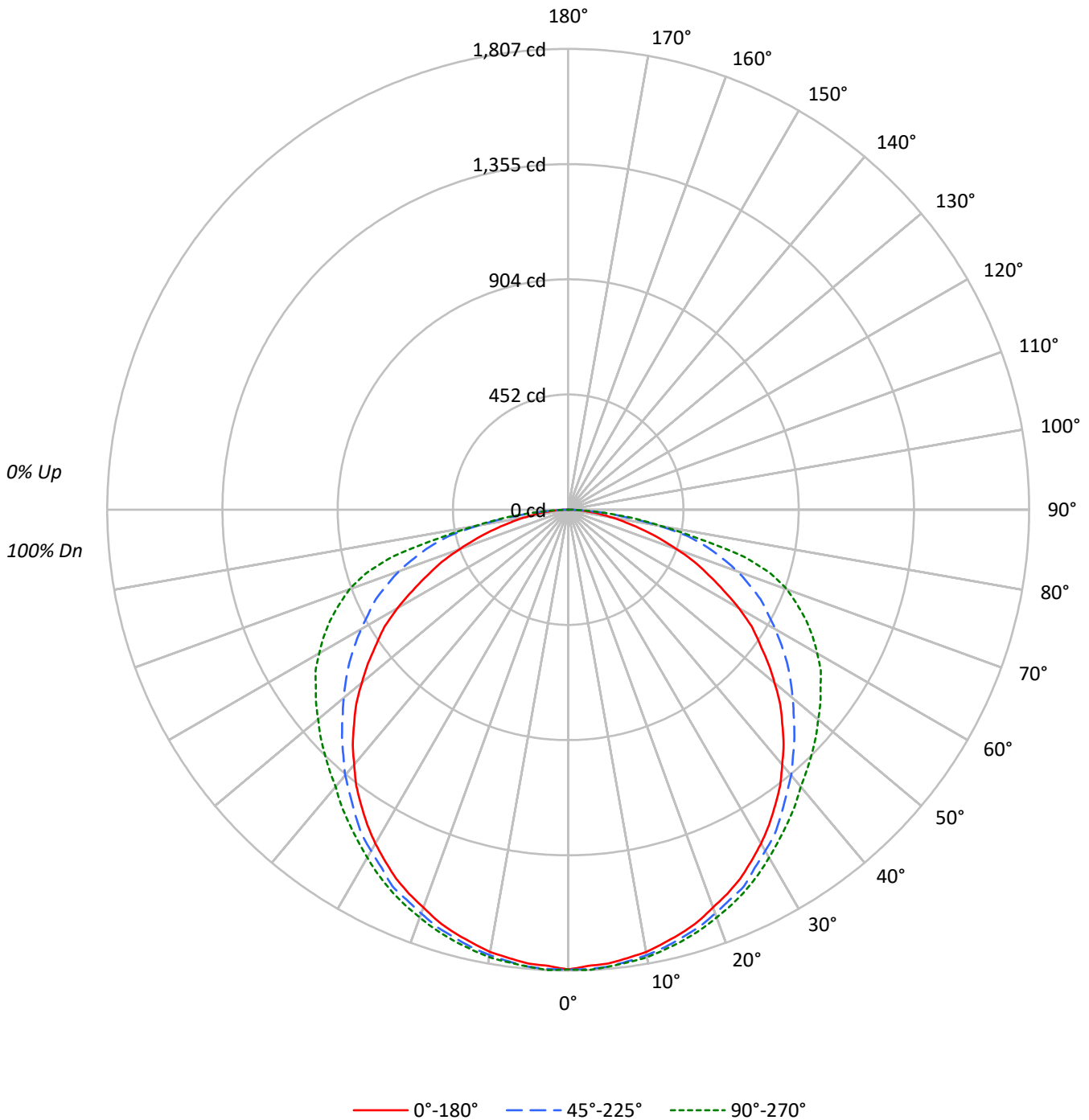
Input Watts (W): 63.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4852	4852	4852
5°	4825	4859	4859
10°	4811	4846	4869
15°	4788	4835	4870
20°	4752	4824	4873
25°	4739	4840	4890
30°	4698	4802	4894
35°	4646	4786	4925
40°	4584	4775	4983
45°	4516	4773	5142
50°	4420	4808	5356
55°	4299	4913	5666
60°	4160	5045	6068
65°	3871	5298	6562
70°	3556	5549	7177
75°	3119	5837	7420
80°	2686	5559	5825
85°	2343	4042	4431



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.6	3.0
10°-20°	489.7	8.5
20°-30°	747.1	13.0
30°-40°	912.2	15.9
40°-50°	975.4	17.0
50°-60°	941.5	16.4
60°-70°	810.4	14.1
70°-80°	548.4	9.6
80°-90°	144.7	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°	1407.4	24.5
0°-40°	2319.6	40.4
0°-60°	4236.5	73.8
0°-90°	5740.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5740.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1803	1803	1803	1803	1803	
5°	1786	1790	1799	1799	1799	170
15°	1719	1723	1735	1744	1748	485
25°	1596	1604	1630	1638	1647	735
35°	1414	1427	1457	1486	1499	885
45°	1187	1208	1254	1318	1351	916
55°	916	946	1047	1153	1208	821
65°	608	667	832	962	1030	605
75°	300	397	561	676	714	322
85°	76	106	131	135	144	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1802.9	1802.9	1802.9	1802.9	1802.9
2.5°	1790.4	1794.6	1802.9	1802.9	1807.1
5°	1786.2	1790.4	1798.8	1798.8	1798.8
7.5°	1773.6	1777.8	1786.2	1790.4	1790.4
10°	1760.6	1765.2	1773.6	1777.8	1782.0
12.5°	1739.6	1743.8	1756.4	1765.2	1765.2
15°	1718.6	1722.8	1735.4	1743.8	1748.0
17.5°	1693.0	1701.8	1714.4	1722.8	1727.0
20°	1659.4	1667.8	1684.6	1697.6	1701.8
22.5°	1630.1	1638.5	1655.3	1667.8	1676.2
25°	1596.1	1604.5	1630.1	1638.5	1646.9
27.5°	1553.7	1562.5	1583.5	1600.3	1612.9
30°	1511.8	1520.1	1545.3	1566.7	1575.1
32.5°	1465.2	1477.8	1507.6	1524.3	1536.9
35°	1414.4	1427.0	1456.8	1486.2	1499.2
37.5°	1364.1	1376.7	1406.0	1444.2	1461.0
40°	1304.9	1321.7	1359.4	1410.2	1418.6
42.5°	1249.9	1270.9	1304.9	1364.1	1385.0
45°	1186.6	1207.6	1254.1	1317.5	1351.1
47.5°	1127.4	1148.4	1199.2	1275.1	1317.5
50°	1055.7	1085.0	1148.4	1237.3	1279.3
52.5°	988.1	1013.3	1098.0	1195.0	1245.7
55°	916.4	945.7	1047.3	1152.6	1207.6
57.5°	853.0	878.2	992.3	1110.6	1174.0
60°	772.9	806.4	937.3	1064.1	1127.4
62.5°	688.1	738.9	882.4	1013.3	1080.8
65°	608.0	667.1	832.0	962.5	1030.5
67.5°	536.2	599.6	768.7	908.0	971.3
70°	451.9	532.0	705.3	840.4	912.2
72.5°	375.9	464.5	633.6	768.7	832.0
75°	300.0	396.9	561.4	675.5	713.7
77.5°	232.0	325.2	481.3	515.2	519.4
80°	173.3	257.6	358.7	362.9	375.9
82.5°	118.3	181.7	232.0	253.4	257.6
85°	75.9	105.7	130.9	135.1	143.5
87.5°	34.0	38.2	46.6	42.4	42.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)