

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: P474228

Luminaire Tested: **24CZ2-75HE-RDP-UNV-L835-CD1-U**

Issue Date: 01/28/2021

Test Information

Test Method: LM-79-08
Report Number: P474228
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/28/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-75HE-RDP-UNV-L835-CD1-U
Description: 2'X4' TROFFER LED MODULE, 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: 5217.3 lumens
Efficiency: N/A
Efficacy: 94.2 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

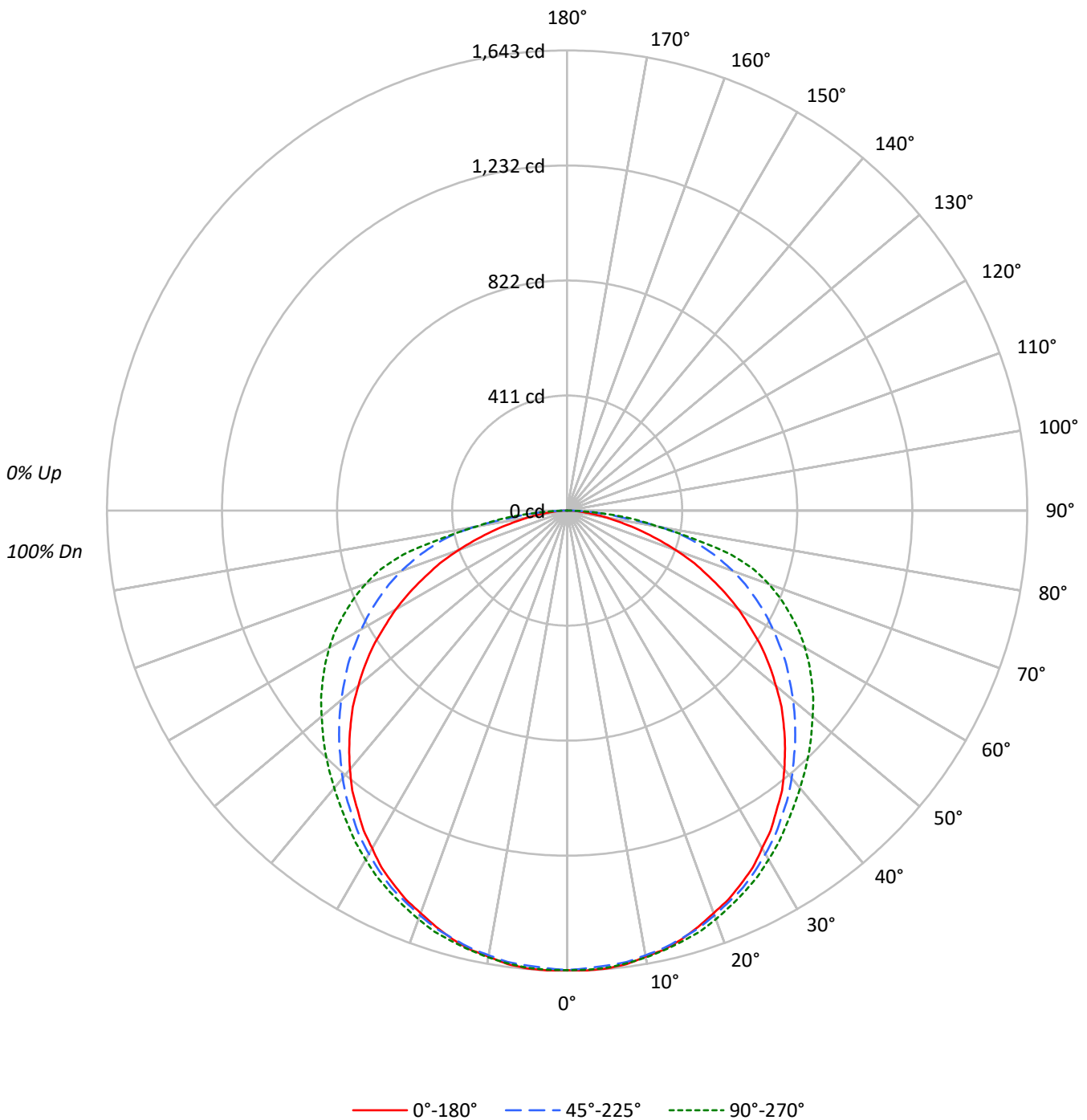
Input Watts (W): 55.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2208	2208	2208
5°	2216	2202	2213
10°	2210	2203	2213
15°	2206	2203	2217
20°	2190	2201	2223
25°	2182	2205	2228
30°	2163	2199	2235
35°	2142	2193	2244
40°	2118	2191	2272
45°	2083	2191	2324
50°	2037	2205	2394
55°	1985	2240	2501
60°	1901	2284	2639
65°	1780	2364	2801
70°	1618	2474	3013
75°	1371	2610	3148
80°	1083	2626	2546
85°	800	1999	2238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.6	3.0
10°-20°	447.9	8.6
20°-30°	685.0	13.1
30°-40°	837.3	16.0
40°-50°	892.5	17.1
50°-60°	853.3	16.4
60°-70°	722.8	13.9
70°-80°	485.8	9.3
80°-90°	137.1	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°	1288.5	24.7
0°-40°	2125.9	40.7
0°-60°	3871.6	74.2
0°-90°	5217.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5217.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1641	1641	1641	1641	1641	
5°	1641	1638	1630	1638	1638	156
15°	1584	1584	1581	1594	1592	447
25°	1470	1475	1485	1498	1501	677
35°	1304	1314	1335	1361	1366	817
45°	1095	1113	1152	1201	1221	844
55°	846	877	955	1030	1066	754
65°	559	616	743	841	880	555
75°	264	360	502	588	606	283
85°	52	106	130	140	145	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1640.8	1640.8	1640.8	1640.8	1640.8
2.5°	1643.4	1643.4	1635.6	1640.8	1640.8
5°	1640.8	1638.2	1630.4	1638.2	1638.2
7.5°	1633.0	1630.4	1625.3	1633.0	1630.4
10°	1617.5	1617.5	1612.3	1620.1	1620.1
12.5°	1604.5	1602.0	1599.4	1609.7	1607.1
15°	1583.8	1583.8	1581.2	1594.2	1591.6
17.5°	1557.9	1560.5	1563.1	1573.5	1576.1
20°	1529.5	1534.6	1537.2	1552.8	1552.8
22.5°	1503.6	1506.2	1511.3	1526.9	1526.9
25°	1469.9	1475.1	1485.4	1498.4	1501.0
27.5°	1436.2	1438.8	1451.8	1469.9	1472.5
30°	1392.2	1400.0	1415.5	1436.2	1438.8
32.5°	1353.4	1361.2	1379.3	1400.0	1405.2
35°	1304.2	1314.5	1335.3	1361.2	1366.3
37.5°	1260.2	1267.9	1293.8	1322.3	1330.1
40°	1206.1	1221.3	1247.2	1280.9	1293.8
42.5°	1151.7	1167.2	1198.3	1242.1	1257.6
45°	1094.7	1112.8	1151.7	1200.9	1221.3
47.5°	1037.8	1058.5	1102.5	1159.5	1182.8
50°	973.0	998.9	1053.3	1118.0	1143.9
52.5°	910.9	942.0	1001.5	1074.0	1107.7
55°	846.2	877.2	954.9	1030.0	1066.2
57.5°	773.7	815.1	900.5	986.0	1024.8
60°	706.6	745.2	848.7	942.0	980.8
62.5°	634.1	685.9	797.0	895.4	934.2
65°	559.0	616.0	742.6	841.0	879.8
67.5°	491.7	553.8	688.5	786.6	825.4
70°	411.4	489.1	628.9	727.1	765.9
72.5°	336.3	421.8	566.8	662.6	698.8
75°	263.8	359.6	502.1	587.5	605.6
77.5°	196.8	297.5	434.7	471.0	458.0
80°	139.8	238.2	338.9	320.8	328.6
82.5°	90.6	181.2	209.7	238.2	245.7
85°	51.8	106.2	129.5	139.8	145.0
87.5°	23.3	38.8	51.8	51.8	49.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)