

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: P474220

Luminaire Tested: **24CZ2-35HE-RDP-UNV-L835-CD1-U**

Issue Date: 01/28/2021

Test Information

Test Method: LM-79-08
Report Number: P474220
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/28/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35HE-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: 2469.0 lumens
Efficiency: N/A
Efficacy: 91.4 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

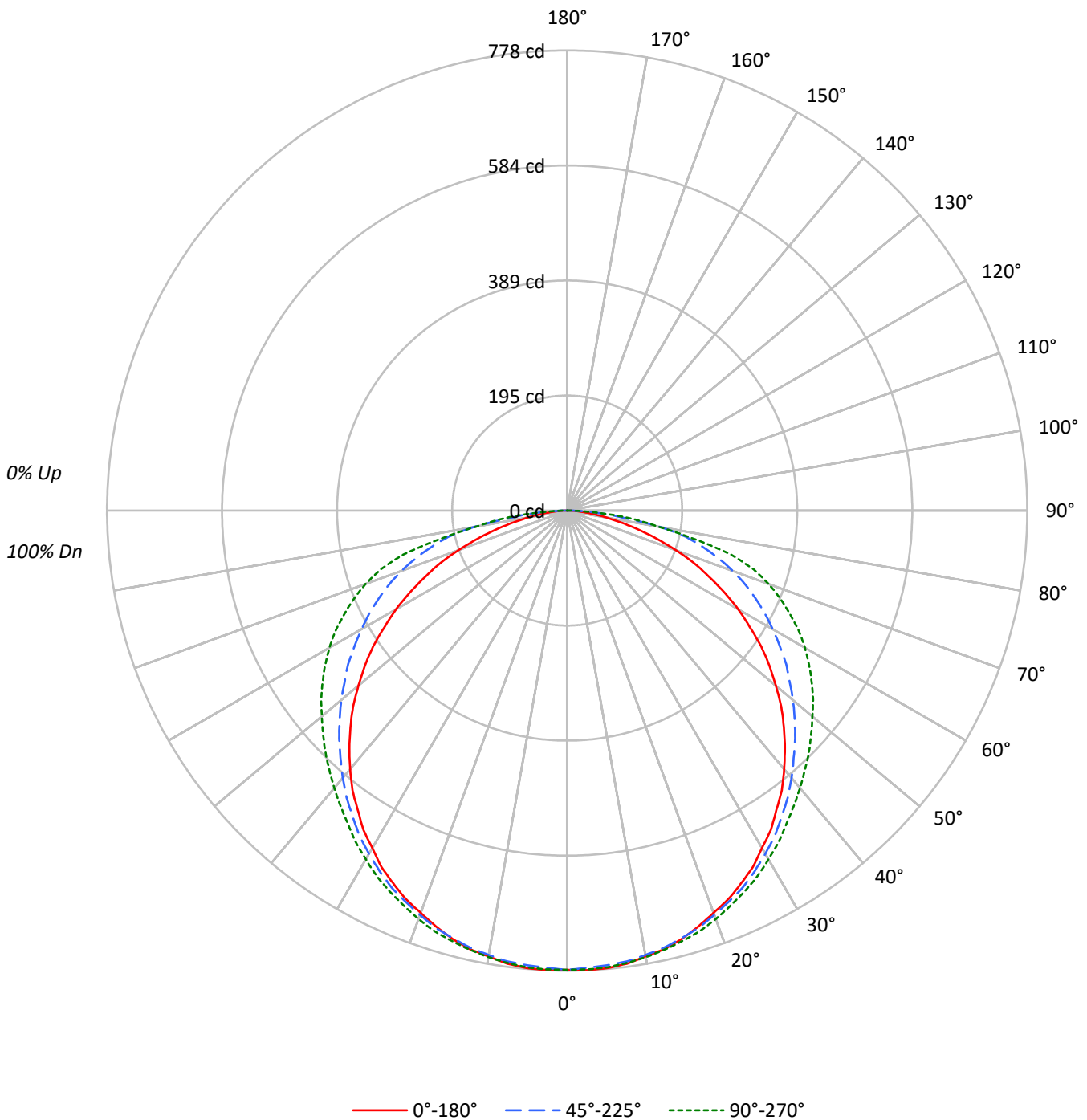
Input Watts (W): 27
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1045	1045	1045
5°	1049	1042	1047
10°	1046	1042	1048
15°	1044	1042	1049
20°	1036	1042	1052
25°	1033	1044	1054
30°	1024	1041	1058
35°	1014	1038	1062
40°	1002	1037	1075
45°	986	1037	1100
50°	964	1043	1133
55°	939	1060	1184
60°	900	1081	1249
65°	842	1119	1326
70°	766	1171	1426
75°	649	1235	1490
80°	513	1243	1205
85°	378	946	1059



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	3.0
10°-20°	212.0	8.6
20°-30°	324.1	13.1
30°-40°	396.2	16.0
40°-50°	422.3	17.1
50°-60°	403.8	16.4
60°-70°	342.1	13.9
70°-80°	229.9	9.3
80°-90°	64.9	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°	609.8	24.7
0°-40°	1006.0	40.7
0°-60°	1832.2	74.2
0°-90°	2469.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2469.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	776	776	776	776	776	
5°	776	775	772	775	775	74
15°	750	750	748	754	753	211
25°	696	698	703	709	710	321
35°	617	622	632	644	647	387
45°	518	527	545	568	578	400
55°	400	415	452	487	505	357
65°	264	292	351	398	416	263
75°	125	170	238	278	287	134
85°	24	50	61	66	69	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	776.5	776.5	776.5	776.5	776.5
2.5°	777.7	777.7	774.0	776.5	776.5
5°	776.5	775.2	771.6	775.2	775.2
7.5°	772.8	771.6	769.1	772.8	771.6
10°	765.4	765.4	763.0	766.7	766.7
12.5°	759.3	758.1	756.9	761.8	760.5
15°	749.5	749.5	748.3	754.4	753.2
17.5°	737.3	738.5	739.7	744.6	745.8
20°	723.8	726.2	727.5	734.8	734.8
22.5°	711.5	712.7	715.2	722.6	722.6
25°	695.6	698.0	702.9	709.1	710.3
27.5°	679.7	680.9	687.0	695.6	696.8
30°	658.8	662.5	669.9	679.7	680.9
32.5°	640.5	644.1	652.7	662.5	665.0
35°	617.2	622.1	631.9	644.1	646.6
37.5°	596.3	600.0	612.3	625.8	629.4
40°	570.7	578.0	590.2	606.1	612.3
42.5°	545.0	552.4	567.1	587.8	595.1
45°	518.1	526.6	545.0	568.3	578.0
47.5°	491.1	500.9	521.7	548.7	559.7
50°	460.5	472.7	498.4	529.1	541.3
52.5°	431.1	445.8	473.9	508.2	524.2
55°	400.4	415.1	451.9	487.4	504.6
57.5°	366.1	385.7	426.2	466.6	485.0
60°	334.4	352.6	401.6	445.8	464.1
62.5°	300.1	324.6	377.1	423.7	442.1
65°	264.5	291.5	351.4	398.0	416.4
67.5°	232.7	262.1	325.8	372.2	390.6
70°	194.7	231.5	297.6	344.1	362.4
72.5°	159.2	199.6	268.2	313.6	330.7
75°	124.9	170.2	237.6	278.0	286.6
77.5°	93.1	140.8	205.7	222.9	216.8
80°	66.2	112.7	160.4	151.8	155.5
82.5°	42.9	85.8	99.2	112.7	116.3
85°	24.5	50.2	61.3	66.2	68.6
87.5°	11.0	18.4	24.5	24.5	23.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)