

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: P474320

Luminaire Tested: **24CZ2-35HE-RDP-UNV-L850-CD1-U**

Issue Date: 01/28/2021

Test Information

Test Method: LM-79-08
Report Number: P474320
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-L850-CD1-U
Description: 2'X4' TROFFER LED MODULE, HIGH EFFICIENCY,SMOOTH LENS W/ RDP INSERT
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2515.9 lumens
Efficiency: N/A
Efficacy: 93.2 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

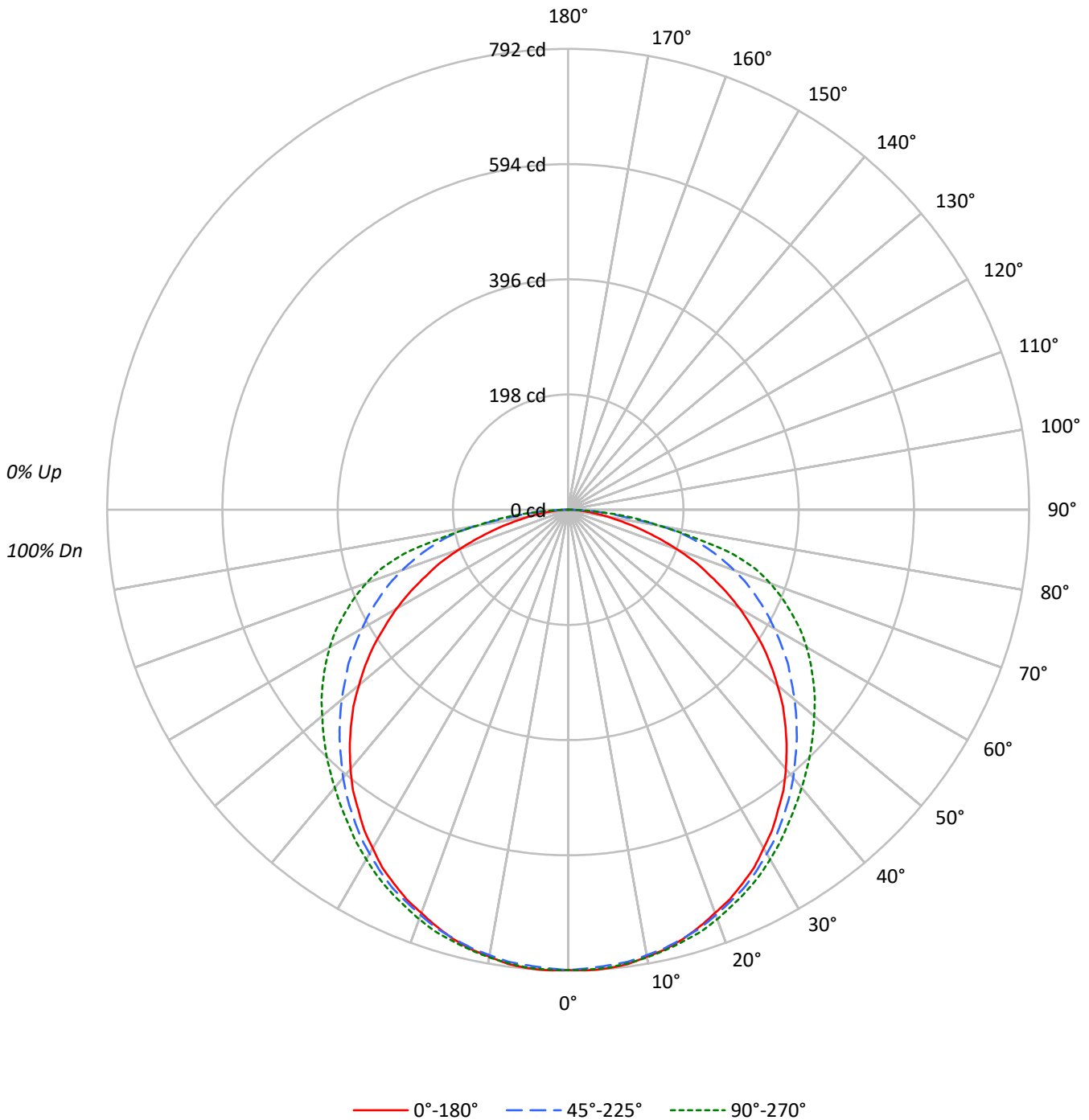
Input Watts (W): 27
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1065	1065	1065
5°	1069	1062	1067
10°	1066	1062	1067
15°	1064	1062	1069
20°	1056	1061	1072
25°	1052	1063	1075
30°	1043	1061	1078
35°	1033	1058	1082
40°	1022	1056	1096
45°	1004	1057	1121
50°	982	1063	1155
55°	957	1080	1206
60°	917	1101	1273
65°	858	1140	1351
70°	780	1193	1453
75°	661	1259	1518
80°	522	1266	1227
85°	386	963	1079



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.1	3.0
10°-20°	216.0	8.6
20°-30°	330.3	13.1
30°-40°	403.8	16.0
40°-50°	430.4	17.1
50°-60°	411.5	16.4
60°-70°	348.6	13.9
70°-80°	234.3	9.3
80°-90°	66.1	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°	621.4	24.7
0°-40°	1025.1	40.7
0°-60°	1866.9	74.2
0°-90°	2515.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2515.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	791	791	791	791	791	
5°	791	790	786	790	790	75
15°	764	764	762	769	768	215
25°	709	711	716	722	724	327
35°	629	634	644	656	659	394
45°	528	537	555	579	589	407
55°	408	423	460	497	514	363
65°	270	297	358	406	424	268
75°	127	173	242	283	292	136
85°	25	51	62	67	70	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	791.2	791.2	791.2	791.2	791.2
2.5°	792.5	792.5	788.7	791.2	791.2
5°	791.2	790.0	786.2	790.0	790.0
7.5°	787.5	786.2	783.7	787.5	786.2
10°	780.0	780.0	777.5	781.2	781.2
12.5°	773.7	772.5	771.2	776.2	775.0
15°	763.7	763.7	762.5	768.7	767.5
17.5°	751.3	752.5	753.8	758.8	760.0
20°	737.5	740.0	741.3	748.8	748.8
22.5°	725.0	726.3	728.8	736.3	736.3
25°	708.8	711.3	716.3	722.5	723.8
27.5°	692.6	693.8	700.1	708.8	710.1
30°	671.4	675.1	682.6	692.6	693.8
32.5°	652.6	656.4	665.1	675.1	677.6
35°	628.9	633.9	643.9	656.4	658.9
37.5°	607.7	611.4	623.9	637.6	641.4
40°	581.6	588.9	601.4	617.7	623.9
42.5°	555.4	562.9	577.8	598.9	606.4
45°	527.9	536.6	555.4	579.1	588.9
47.5°	500.4	510.4	531.6	559.1	570.3
50°	469.2	481.7	507.9	539.1	551.6
52.5°	439.2	454.2	482.9	517.9	534.1
55°	408.0	423.0	460.5	496.7	514.2
57.5°	373.1	393.0	434.3	475.5	494.2
60°	340.7	359.3	409.3	454.2	473.0
62.5°	305.8	330.7	384.3	431.8	450.5
65°	269.6	297.0	358.1	405.5	424.3
67.5°	237.1	267.1	332.0	379.3	398.0
70°	198.4	235.9	303.3	350.6	369.3
72.5°	162.2	203.4	273.3	319.5	337.0
75°	127.2	173.4	242.1	283.3	292.0
77.5°	94.9	143.5	209.6	227.1	220.9
80°	67.4	114.9	163.4	154.7	158.4
82.5°	43.7	87.4	101.1	114.9	118.5
85°	25.0	51.2	62.4	67.4	69.9
87.5°	11.2	18.7	25.0	25.0	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)