

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: P474319

Luminaire Tested: **24CZ2-30HE-RDP-UNV-L850-CD1-U**

Issue Date: 01/28/2021

Test Information

Test Method: LM-79-08
Report Number: P474319
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/28/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30HE-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: 2116.5 lumens
Efficiency: N/A
Efficacy: 94.9 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

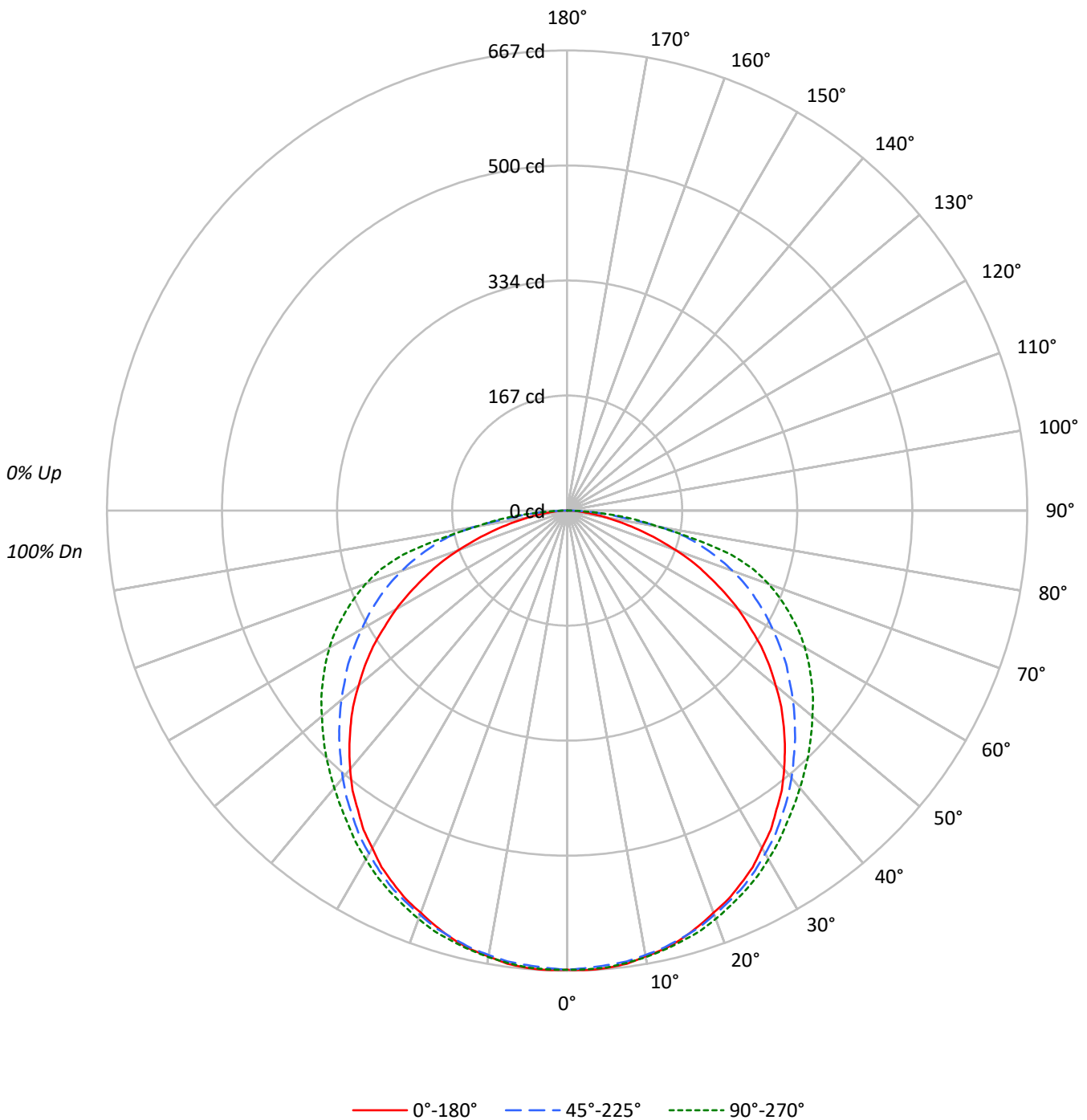
Input Watts (W): 22.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P474319

CATALOG NUMBER: 24CZ2-30HE-RDP-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P474319

CATALOG NUMBER: 24CZ2-30HE-RDP-UNV-L850-CD1-U

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°	896	896	896
5°	899	893	898
10°	897	894	898
15°	895	894	899
20°	888	893	902
25°	885	895	904
30°	877	892	907
35°	869	890	910
40°	859	889	922
45°	845	889	943
50°	826	894	971
55°	805	909	1015
60°	771	927	1071
65°	722	959	1136
70°	657	1004	1222
75°	556	1059	1277
80°	439	1065	1033
85°	324	810	908



TEST NUMBER: P474319

CATALOG NUMBER: 24CZ2-30HE-RDP-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	3.0
10°-20°	181.7	8.6
20°-30°	277.9	13.1
30°-40°	339.7	16.0
40°-50°	362.0	17.1
50°-60°	346.1	16.4
60°-70°	293.2	13.9
70°-80°	197.1	9.3
80°-90°	55.6	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°	522.7	24.7
0°-40°	862.4	40.7
0°-60°	1570.6	74.2
0°-90°	2116.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2116.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	666	666	666	666	666	
5°	666	665	661	665	665	63
15°	642	642	642	647	646	181
25°	596	598	603	608	609	275
35°	529	533	542	552	554	331
45°	444	451	467	487	496	343
55°	343	356	387	418	432	306
65°	227	250	301	341	357	225
75°	107	146	204	238	246	115
85°	21	43	52	57	59	26
90°	0	0	0	0	0	



TEST NUMBER: P474319

CATALOG NUMBER: 24CZ2-30HE-RDP-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	665.6	665.6	665.6	665.6	665.6
2.5°	666.7	666.7	663.5	665.6	665.6
5°	665.6	664.6	661.4	664.6	664.6
7.5°	662.5	661.4	659.3	662.5	661.4
10°	656.2	656.2	654.1	657.2	657.2
12.5°	650.9	649.9	648.8	653.0	652.0
15°	642.5	642.5	641.5	646.7	645.7
17.5°	632.0	633.0	634.1	638.3	639.4
20°	620.4	622.5	623.6	629.9	629.9
22.5°	609.9	611.0	613.1	619.4	619.4
25°	596.3	598.4	602.6	607.8	608.9
27.5°	582.6	583.7	588.9	596.3	597.3
30°	564.8	567.9	574.2	582.6	583.7
32.5°	549.0	552.2	559.5	567.9	570.0
35°	529.1	533.3	541.7	552.2	554.3
37.5°	511.2	514.4	524.9	536.4	539.6
40°	489.3	495.5	506.0	519.6	524.9
42.5°	467.2	473.5	486.1	503.9	510.2
45°	444.1	451.4	467.2	487.2	495.5
47.5°	421.0	429.4	447.2	470.3	479.8
50°	394.7	405.2	427.3	453.5	464.0
52.5°	369.5	382.1	406.3	435.7	449.3
55°	343.3	355.9	387.4	417.8	432.5
57.5°	313.8	330.7	365.3	400.0	415.7
60°	286.6	302.3	344.3	382.1	397.9
62.5°	257.2	278.2	323.3	363.2	379.0
65°	226.8	249.9	301.2	341.2	356.9
67.5°	199.5	224.7	279.3	319.1	334.9
70°	166.9	198.4	255.1	294.9	310.7
72.5°	136.4	171.1	229.9	268.8	283.5
75°	107.0	145.9	203.7	238.3	245.7
77.5°	79.8	120.7	176.4	191.1	185.8
80°	56.7	96.6	137.5	130.1	133.3
82.5°	36.8	73.5	85.1	96.6	99.7
85°	21.0	43.1	52.5	56.7	58.8
87.5°	9.5	15.8	21.0	21.0	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)