

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: P475059

Luminaire Tested: **22CZ2-34HE-RDP-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475059
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34HE-RDP-UNV-L840-CD1-U
Description: 2'X2' TROFFER LED MODULE, HIGH EFFICIENCY,SMOOTH LENS W/ RDP INSERT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2339.1 lumens
Efficiency: N/A
Efficacy: 96.3 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

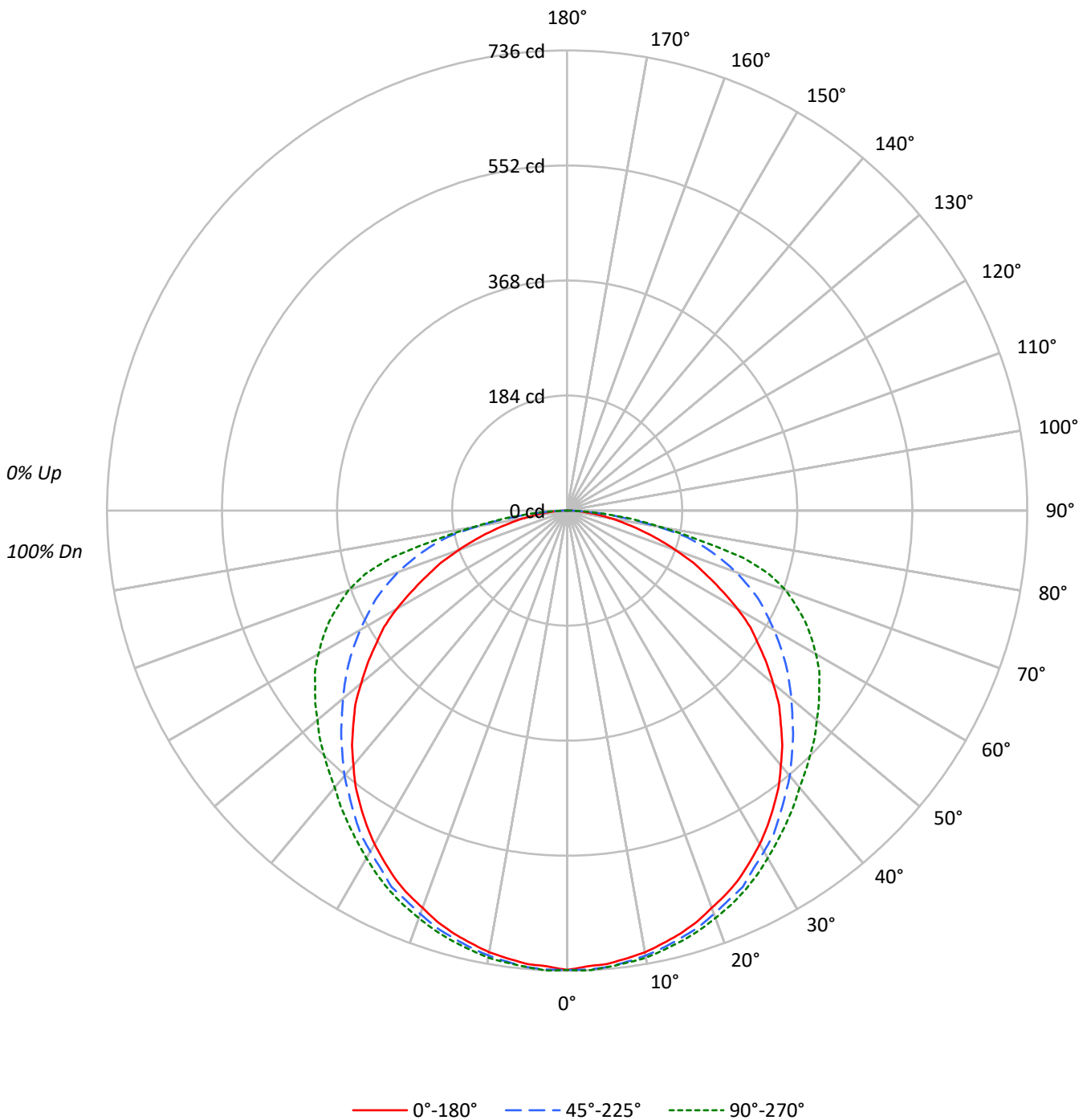
Input Watts (W): 24.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P475059

CATALOG NUMBER: 22CZ2-34HE-RDP-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P475059

CATALOG NUMBER: 22CZ2-34HE-RDP-UNV-L840-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	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°	1977	1977	1977
5°	1966	1980	1980
10°	1960	1975	1984
15°	1951	1970	1984
20°	1936	1966	1986
25°	1931	1972	1993
30°	1914	1957	1995
35°	1894	1950	2007
40°	1868	1946	2031
45°	1840	1945	2095
50°	1801	1959	2182
55°	1752	2002	2309
60°	1695	2056	2472
65°	1578	2159	2674
70°	1448	2261	2924
75°	1272	2379	3023
80°	1094	2266	2374
85°	954	1646	1806



TEST NUMBER: P475059

CATALOG NUMBER: 22CZ2-34HE-RDP-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	3.0
10°-20°	199.6	8.5
20°-30°	304.5	13.0
30°-40°	371.7	15.9
40°-50°	397.5	17.0
50°-60°	383.7	16.4
60°-70°	330.3	14.1
70°-80°	223.5	9.6
80°-90°	59.0	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°	573.5	24.5
0°-40°	945.3	40.4
0°-60°	1726.4	73.8
0°-90°	2339.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2339.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	735	735	735	735	735	
5°	728	730	733	733	733	69
15°	700	702	707	711	712	198
25°	650	654	664	668	671	299
35°	576	582	594	606	611	361
45°	484	492	511	537	551	373
55°	373	385	427	470	492	335
65°	248	272	339	392	420	246
75°	122	162	229	275	291	131
85°	31	43	53	55	58	35
90°	0	0	0	0	0	



TEST NUMBER: P475059

CATALOG NUMBER: 22CZ2-34HE-RDP-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	734.7	734.7	734.7	734.7	734.7
2.5°	729.6	731.3	734.7	734.7	736.4
5°	727.9	729.6	733.0	733.0	733.0
7.5°	722.7	724.5	727.9	729.6	729.6
10°	717.4	719.3	722.7	724.5	726.2
12.5°	708.9	710.6	715.7	719.3	719.3
15°	700.3	702.1	707.2	710.6	712.3
17.5°	689.9	693.5	698.6	702.1	703.8
20°	676.2	679.7	686.5	691.8	693.5
22.5°	664.3	667.7	674.5	679.7	683.1
25°	650.4	653.8	664.3	667.7	671.1
27.5°	633.1	636.7	645.3	652.1	657.3
30°	616.0	619.5	629.7	638.4	641.9
32.5°	597.1	602.2	614.3	621.2	626.3
35°	576.4	581.5	593.6	605.6	610.9
37.5°	555.9	561.0	573.0	588.5	595.4
40°	531.8	538.6	554.0	574.7	578.1
42.5°	509.4	517.9	531.8	555.9	564.4
45°	483.5	492.1	511.1	536.9	550.6
47.5°	459.4	468.0	488.7	519.6	536.9
50°	430.2	442.2	468.0	504.2	521.3
52.5°	402.7	412.9	447.5	487.0	507.6
55°	373.4	385.4	426.8	469.7	492.1
57.5°	347.6	357.9	404.4	452.6	478.4
60°	314.9	328.6	382.0	433.6	459.4
62.5°	280.4	301.1	359.6	412.9	440.4
65°	247.8	271.9	339.1	392.2	419.9
67.5°	218.5	244.3	313.2	370.0	395.8
70°	184.1	216.8	287.4	342.5	371.7
72.5°	153.2	189.3	258.2	313.2	339.1
75°	122.3	161.7	228.8	275.3	290.8
77.5°	94.6	132.5	196.1	210.0	211.7
80°	70.6	105.0	146.2	147.9	153.2
82.5°	48.2	74.0	94.6	103.3	105.0
85°	30.9	43.1	53.3	55.1	58.5
87.5°	13.8	15.6	19.0	17.3	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)