

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: INVUE

Report Number: P184543

Luminaire Tested: **36EN-LD2-27-UNV-L840-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34514)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: 36EN-LD2-27-UNV-L840-CD1-U
Description: METALUX ENCOUNTER 300X600 TROFFER

Light Source: EATON LED 4000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

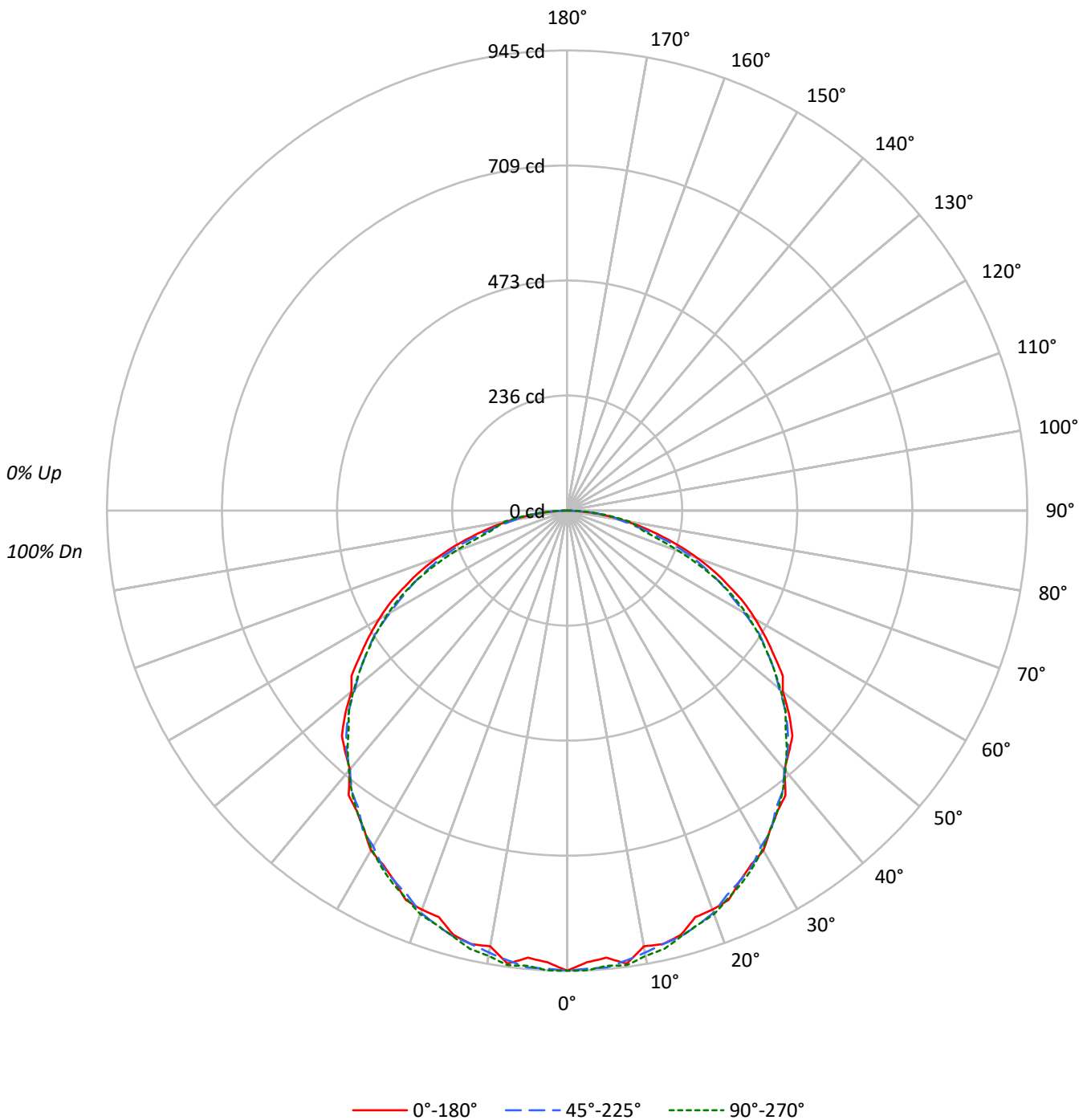
Lumens per Lamp: N/A
Luminaire Lumens: 2747.3 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 24
Input Voltage (V): NR
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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	46	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5085	5085	5085
5°	4980	5087	5069
10°	4965	5038	5074
15°	5025	5044	5044
20°	4995	5033	5052
25°	4983	4983	5023
30°	5010	4948	4989
35°	4949	4906	4949
40°	4874	4874	4898
45°	4979	4878	4828
50°	4841	4757	4786
55°	4867	4681	4681
60°	4801	4517	4588
65°	4670	4376	4376
70°	4471	4211	3847
75°	4121	3710	3367
80°	3685	3378	3992
85°	3063	3470	3267



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.3	3.3
10°-20°	255.1	9.3
20°-30°	388.4	14.1
30°-40°	470.4	17.1
40°-50°	493.4	18.0
50°-60°	451.3	16.4
60°-70°	344.9	12.6
70°-80°	193.9	7.1
80°-90°	60.5	2.2
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°	732.8	26.7
0°-40°	1203.2	43.8
0°-60°	2148.0	78.2
0°-90°	2747.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2747.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	945	945	945	945	945	
5°	922	938	942	948	938	88
15°	902	902	905	905	905	253
25°	839	842	839	846	846	388
35°	753	750	747	753	753	473
45°	654	644	641	634	634	499
55°	519	512	499	499	499	463
65°	367	357	344	340	344	363
75°	198	192	178	165	162	211
85°	50	50	56	53	53	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	944.9	944.9	944.9	944.9	944.9
2.5°	928.4	941.6	941.6	948.2	944.9
5°	921.8	938.3	941.6	948.2	938.3
7.5°	938.3	935.0	931.7	938.3	941.6
10°	908.5	921.8	921.8	938.3	928.4
12.5°	911.8	915.1	911.8	911.8	921.8
15°	901.9	901.9	905.2	905.2	905.2
17.5°	875.5	888.7	892.0	895.3	892.0
20°	872.2	875.5	878.8	882.1	882.1
22.5°	865.6	859.0	855.7	868.9	862.3
25°	839.2	842.5	839.2	845.8	845.8
27.5°	819.3	819.3	822.6	819.3	825.9
30°	806.1	802.8	796.2	802.8	802.8
32.5°	776.4	779.7	779.7	776.4	776.4
35°	753.3	750.0	746.7	753.3	753.3
37.5°	736.7	720.2	726.8	723.5	726.8
40°	693.8	703.7	693.8	693.8	697.1
42.5°	674.0	670.7	670.7	667.4	667.4
45°	654.1	644.2	640.9	634.3	634.3
47.5°	617.8	617.8	607.9	601.3	607.9
50°	578.2	581.5	568.2	564.9	571.6
52.5°	558.3	548.4	535.2	538.5	535.2
55°	518.7	512.1	498.9	498.9	498.9
57.5°	482.4	479.0	465.8	462.5	462.5
60°	446.0	439.4	419.6	422.9	426.2
62.5°	409.7	399.8	379.9	386.5	386.5
65°	366.7	356.8	343.6	340.3	343.6
67.5°	327.1	313.9	303.9	300.6	294.0
70°	284.1	277.5	267.6	247.8	244.5
72.5°	241.2	231.3	224.7	201.5	198.2
75°	198.2	191.6	178.4	165.2	161.9
77.5°	158.6	155.3	138.8	138.8	145.4
80°	118.9	115.6	109.0	122.2	128.8
82.5°	82.6	79.3	89.2	92.5	92.5
85°	49.6	49.6	56.2	52.9	52.9
87.5°	19.8	23.1	23.1	26.4	26.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)