

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: P358702

Luminaire Tested: **HL36SAR13WFLD2WED010TLS3PIN2GMWWB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P358702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1908-462-31)
Test Lab: INNOVATION CENTER (G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: HL36SAR13WFLD2WED010TLS3PIN2GMWWB
Description: HL3 13W Square, Wide Flood optic with pin-hole trim, Lensed, Matte White
Light Source: (1) 3100K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 910.0 lumens
Efficiency: N/A
Efficacy: 63.2 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.76 / 0.78
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

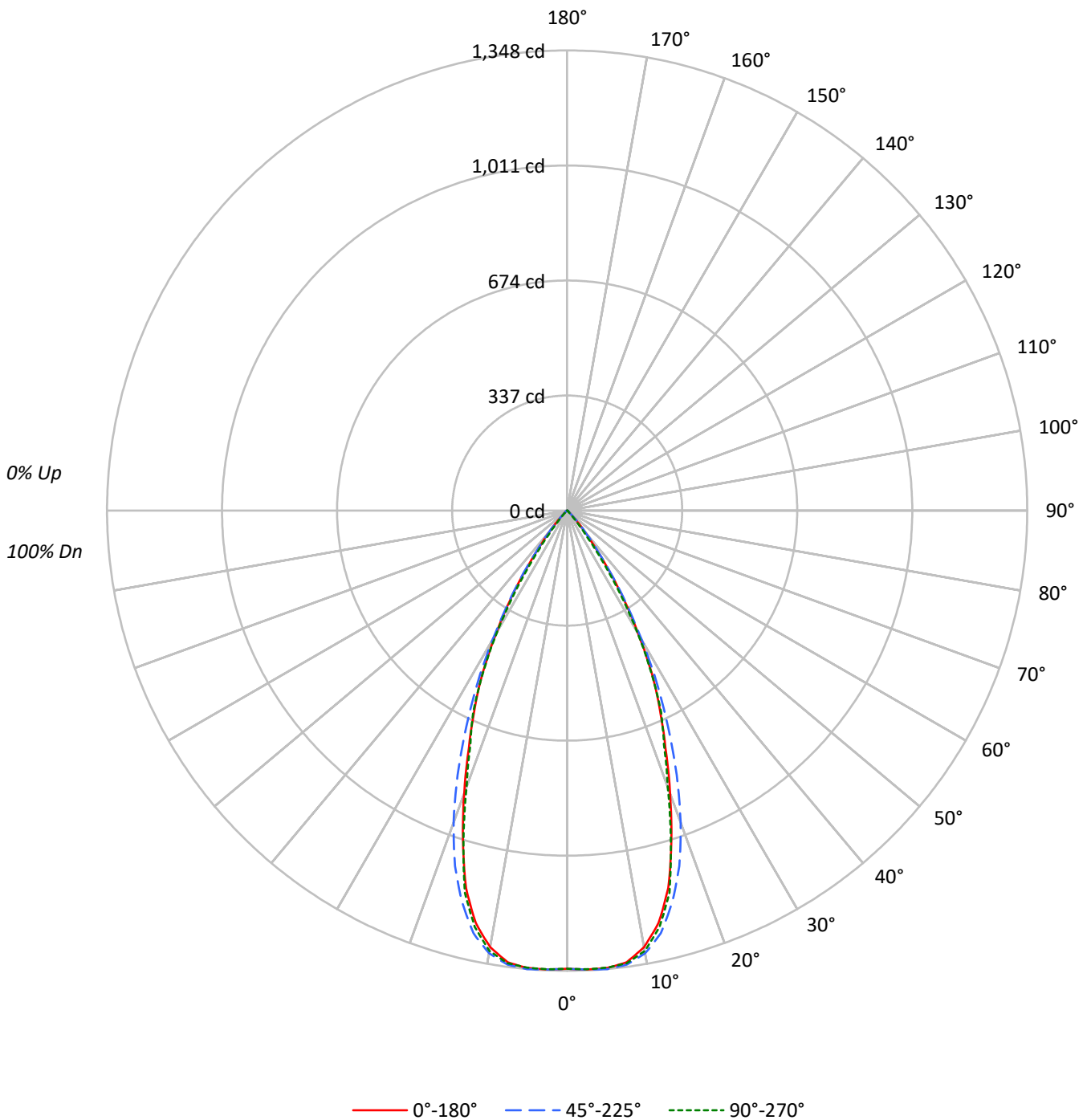
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	94
2	109	104	101	98	107	103	99	97	100	97	94	97	94	92	94	92	91	89
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84
4	99	93	88	84	98	91	87	83	89	85	82	87	84	81	86	83	80	79
5	95	87	82	78	94	87	82	78	85	81	77	83	79	77	82	78	76	75
6	91	83	77	73	90	82	77	73	81	76	73	79	75	72	78	75	72	70
7	87	79	73	69	86	78	73	69	77	72	69	76	71	68	74	71	68	67
8	83	75	69	65	82	74	69	65	73	68	65	72	68	65	71	67	65	63
9	80	71	66	62	79	71	65	62	70	65	62	69	65	61	68	64	61	60
10	77	68	62	59	76	67	62	59	66	62	59	66	61	58	65	61	58	57

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	520024	520024	520024
5°	523100	524539	522750
10°	510930	518209	515298
15°	459258	476709	464433
20°	363585	401028	355585
25°	274407	298564	277998
30°	186093	194773	182737
35°	99435	104260	81506
40°	38394	41226	21094
45°	12166	12714	5590
50°	3376	4461	2773
55°	2500	2500	2500
60°	2170	2170	2170
65°	2567	2567	1742
70°	2153	2153	2153
75°	1347	1347	1347
80°	2008	2008	2008
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.5	14.0
10°-20°	319.3	35.1
20°-30°	302.4	33.2
30°-40°	134.1	14.7
40°-50°	19.4	2.1
50°-60°	3.3	0.4
60°-70°	2.4	0.3
70°-80°	1.3	0.1
80°-90°	0.3	0.0
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°	749.2	82.3
0°-40°	883.3	97.1
0°-60°	906.0	99.6
0°-90°	910.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	910.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1342	1342	1342	1342	1342	
5°	1345	1346	1348	1348	1344	127
15°	1145	1170	1188	1175	1158	312
25°	642	665	698	656	650	293
35°	210	213	220	191	172	137
45°	22	23	23	13	10	22
55°	4	4	4	4	4	3
65°	3	3	3	3	2	2
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1342.0	1342.0	1342.0	1342.0	1342.0
2.5°	1345.7	1345.7	1345.7	1344.8	1344.8
5°	1344.8	1345.7	1348.5	1347.6	1343.9
7.5°	1334.6	1336.5	1341.1	1341.1	1337.4
10°	1298.5	1306.8	1317.0	1313.3	1309.6
12.5°	1237.4	1249.4	1268.0	1258.7	1249.4
15°	1144.8	1169.8	1188.3	1175.3	1157.7
17.5°	1016.0	1049.4	1092.0	1044.7	1009.5
20°	881.7	911.4	972.5	898.4	862.3
22.5°	753.0	787.3	838.2	770.6	740.9
25°	641.8	665.0	698.3	655.7	650.2
27.5°	537.2	543.7	568.7	545.5	532.6
30°	415.9	433.5	435.3	421.4	408.4
32.5°	312.1	316.8	318.6	300.1	289.0
35°	210.2	213.0	220.4	190.8	172.3
37.5°	128.7	137.1	135.2	107.4	89.8
40°	75.9	79.7	81.5	54.6	41.7
42.5°	44.5	43.5	45.4	26.9	19.4
45°	22.2	23.2	23.2	13.0	10.2
47.5°	10.2	12.0	13.0	7.4	5.6
50°	5.6	6.5	7.4	4.6	4.6
52.5°	3.7	4.6	4.6	3.7	3.7
55°	3.7	3.7	3.7	3.7	3.7
57.5°	2.8	2.8	2.8	2.8	2.8
60°	2.8	2.8	2.8	2.8	2.8
62.5°	2.8	2.8	2.8	2.8	2.8
65°	2.8	2.8	2.8	2.8	1.9
67.5°	1.9	1.9	1.9	1.9	1.9
70°	1.9	1.9	1.9	1.9	1.9
72.5°	1.9	1.9	1.9	1.9	1.9
75°	0.9	0.9	0.9	0.9	0.9
77.5°	0.9	0.9	0.9	0.9	0.9
80°	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.0	0.9	0.9
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)