

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: NEO-RAY

Report Number: BALLABS ESTIMATED TEST NO. 14685.1

Luminaire Tested: **1B-1T5HO-5-UEB-S42**

Issue Date: 3/3/2020

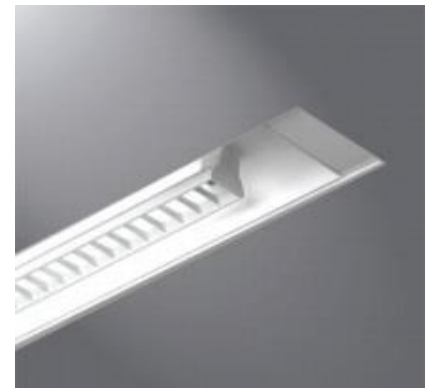
Test Information

Test Method: LM-41-14
Report Number: BALLABS ESTIMATED TEST NO. 14685.1
Test Lab: BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: 1B-1T5HO-5-UEB-S42
Description: 1/54W T5HO 60x5.5x4" RECESSED LUMINAIRE w/54" OPEN WHITE REFL
46.5" ACRYLIC RAIL BAFFLE w/INTERNAL SEMISPEC SIDES & 1" OC
2" WHITE BLADES ***ESTIMATED FROM #14685***
Light Source: -
FP54T5HO/835
Ballast/Driver: -

Summary

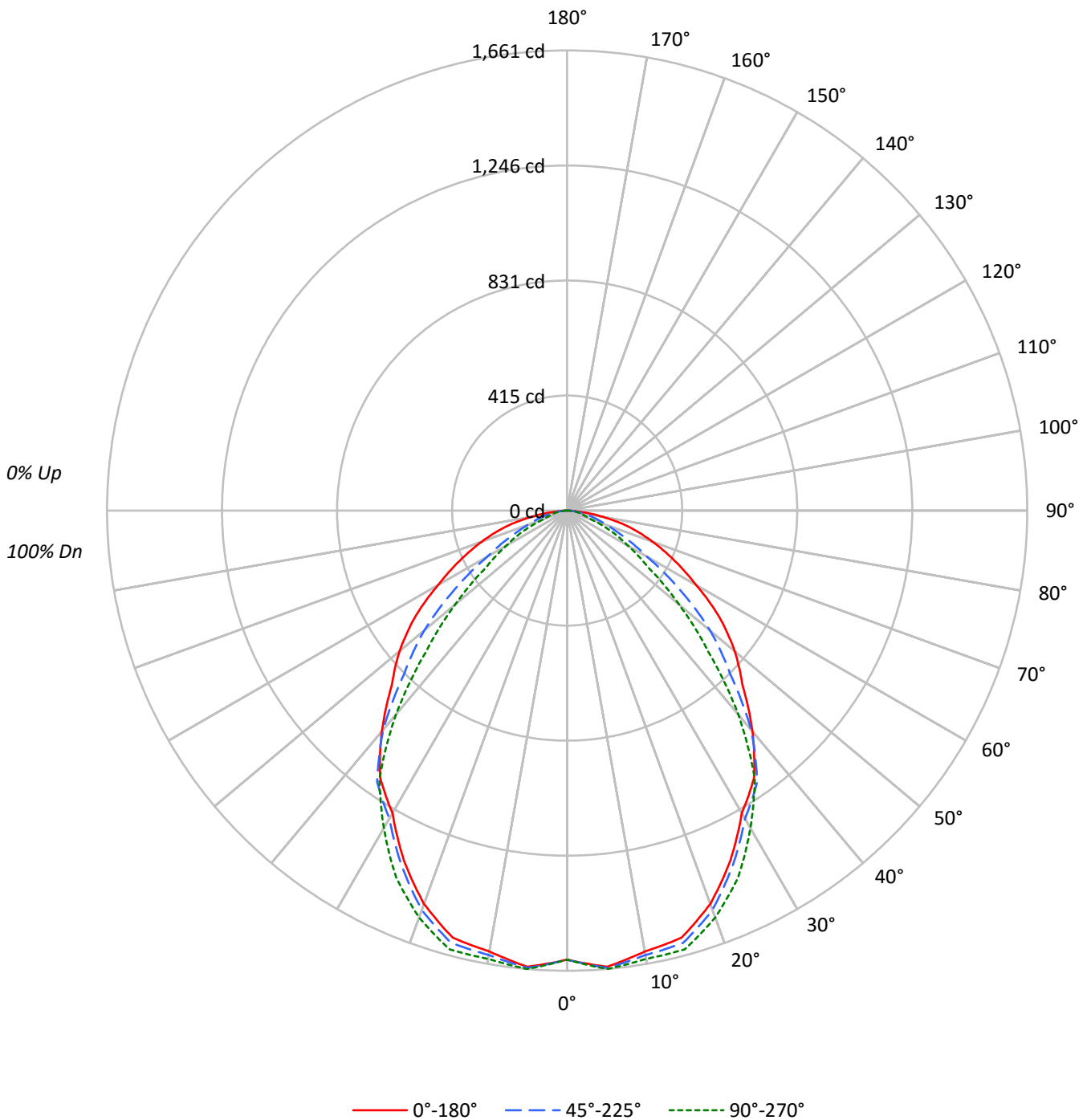
Lumens per Lamp: 5000 (1 lamp)
Luminaire Lumens: 3508.0 lumens
Efficiency: 70.2%
Efficacy: 63.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.25
Luminous Opening: Rectangular (W 0.42' x L: 4.5' x H: 0')
CIE Type: Direct

Input Watts (W): 55
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	50	30	10	50	30	10	0		
RCR																										
0	84	84	84	84	82	82	82	82	78	78	78	75	75	75	72	72	72	70					70			
1	77	75	72	70	76	73	71	69	70	68	66	67	66	64	65	64	63					61				
2	71	66	62	59	70	65	61	58	63	60	57	60	58	55	58	56	54					53				
3	66	59	54	50	64	58	54	50	56	52	49	54	51	48	53	50	47					46				
4	61	53	48	44	59	52	47	43	51	46	43	49	45	42	48	44	42					40				
5	56	48	42	38	55	47	42	38	46	41	38	45	41	37	43	40	37					36				
6	52	44	38	34	51	43	38	34	42	37	33	41	36	33	40	36	33					32				
7	49	40	34	30	48	39	34	30	38	34	30	37	33	30	37	33	30					28				
8	46	37	31	27	45	36	31	27	35	31	27	35	30	27	34	30	27					26				
9	43	34	29	25	42	34	28	25	33	28	25	32	28	25	31	27	24					23				
10	40	31	26	23	39	31	26	23	30	26	23	30	26	22	29	25	22					21				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9188	9188	9188
5°	9405	9428	9451
10°	9301	9376	9457
15°	9366	9483	9624
20°	9114	9253	9428
25°	8718	8843	9137
30°	8253	8404	8659
35°	8144	8276	8172
40°	7703	7643	7111
45°	7182	6661	5780
50°	6966	5943	4647
55°	6631	4882	3518
60°	6088	3752	2879
65°	5727	3045	2320
70°	5419	2486	1475
75°	5168	2168	1314
80°	4276	1763	1338
85°	2601	1561	1366



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	156.7	4.5	3.1
10°-20°	452.4	12.9	9.0
20°-30°	653.1	18.6	13.1
30°-40°	731.2	20.8	14.6
40°-50°	639.7	18.2	12.8
50°-60°	457.3	13.0	9.1
60°-70°	264.5	7.5	5.3
70°-80°	121.7	3.5	2.4
80°-90°	31.2	0.9	0.6
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	1262.3	36.0	25.2
0°-40°	1993.5	56.8	39.9
0°-60°	3090.5	88.1	61.8
0°-90°	3508.0	100.0	70.2
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	3508.0	100.0	70.2

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1621	1621	1621	1621	1621	
5°	1653	1653	1657	1661	1661	156
15°	1596	1601	1616	1633	1640	447
25°	1394	1401	1414	1443	1461	641
35°	1177	1184	1196	1181	1181	729
45°	896	894	831	743	721	699
55°	671	636	494	384	356	597
65°	427	340	227	193	173	425
75°	236	134	99	73	60	245
85°	40	30	24	21	21	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1621	1621	1621	1621	1621
5°	1653	1653	1657	1661	1661
10°	1616	1619	1629	1639	1643
15°	1596	1601	1616	1633	1640
20°	1511	1520	1534	1553	1563
25°	1394	1401	1414	1443	1461
30°	1261	1270	1284	1309	1323
35°	1177	1184	1196	1181	1181
40°	1041	1046	1033	976	961
45°	896	894	831	743	721
50°	790	779	674	557	527
55°	671	636	494	384	356
60°	537	474	331	269	254
65°	427	340	227	193	173
70°	327	216	150	116	89
75°	236	134	99	73	60
80°	131	67	54	41	41
85°	40	30	24	21	21
90°	0	0	0	0	0

(END OF REPORT)