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Floodlight Distribution Test Report

Relevant Standards
IES LM-79-2008, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)

Prepared For
B-K Lighting INC

Daniel Carrejo
40429 Brickyard Dr.
Madera, CA 93636
United States

Catalog Number

DI-LED-TR-e153-41°-WFL-WHP-C-INC-MT

Order Number
14327079
Test Number
14327079.23

Test Date

2022-12-13

Prepared By

Austin Duff, Technician

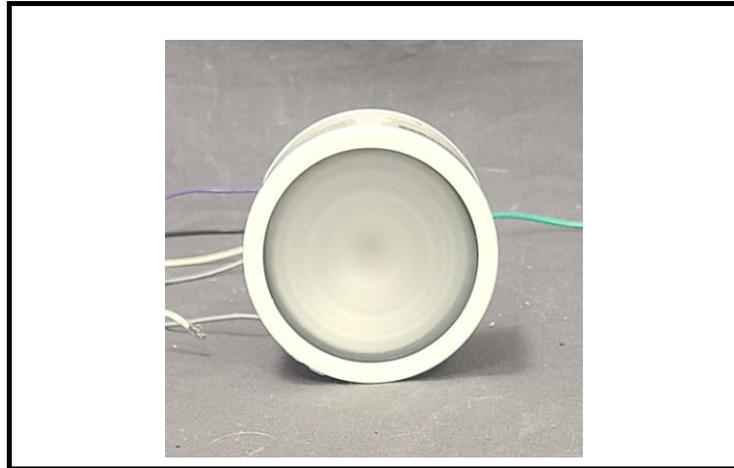
Approved By

Yilmaz Yucelidag, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Circular white metal housing with glass lens
Lamp: One (1) LED
Mounting: Pendant
Ballast/Driver: Integrated

Luminaire



Luminaire Characteristics
 Luminous Diameter: 2.50 in.

Summary of Results

Total Luminaire Output:	403.2 Lumens
Luminaire Efficacy:	43.4 lm/w
Maximum Candela:	466 Candela

Test Conditions

Test Temperature:	25.2 °C
Voltage:	120.0 VAC
Current:	0.07961 A
Power:	9.300 W
Power Factor:	0.973
Frequency:	60 Hz
Current THD:	19.4 %

Laboratory results may not be representative of field performance
 Ballast factors have not been applied

Distribution - Goniophotometer

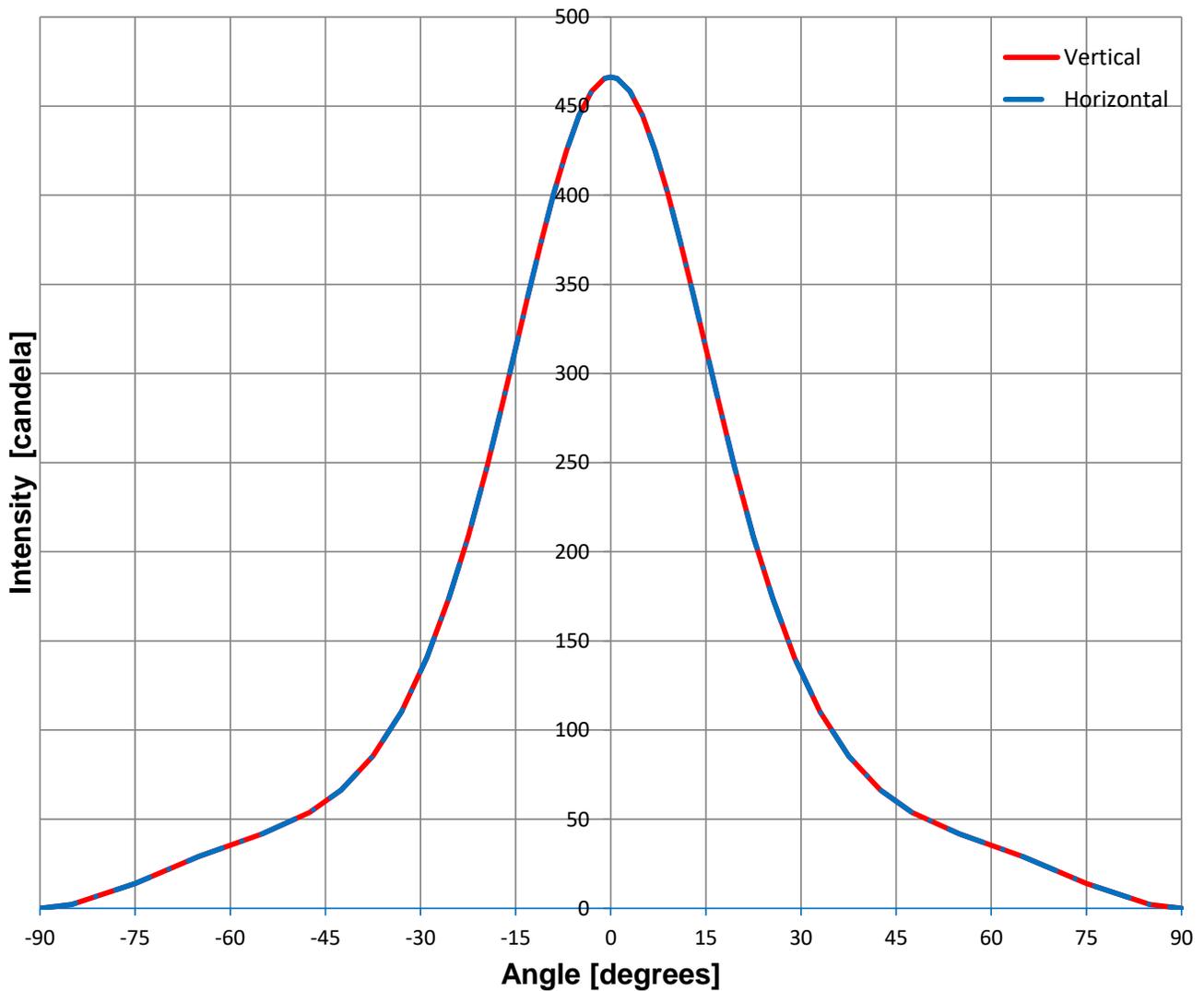
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.2 °C	120.0 VAC	0.07961 A	9.300 W	0.973	60 Hz	19.4 %

Summary of Results

Total Lumen Output:	403.2 Lumens	Maximum Candela:	466.3 Candela
Luminaire Efficacy:	43.4 Lumens/Watt	Maximum Angle:	0 H 0 V
Field Lumens:	327.4 Lumens	Field Angle :	103.9 H X 103.9 V
Beam Lumens:	134.0 Lumens	Beam Angle :	41.2 H X 41.2 V
Spill Light Lumens:	75.7 Lumens	IESNA Type:	6 H X 6 V

Maximum Candlepower Plot



Candela Tabulation
Lateral Angle (Degrees)

	0	1	3	5	7	9	11	13	15	17	19.5
85.0	2	2	2	2	2	2	2	2	2	2	2
75.0	14	14	14	14	14	14	14	13	13	13	13
65.0	29	29	29	29	29	29	28	28	28	27	27
55.0	42	42	42	42	41	41	41	40	40	40	39
47.5	54	54	54	53	53	52	52	51	50	50	48
42.5	66	66	66	66	65	64	63	62	60	59	57
37.5	85	85	85	84	83	81	79	77	75	72	69
33.0	110	110	110	108	106	104	101	97	93	89	84
29.0	141	140	139	137	134	130	126	120	115	109	101
25.5	174	174	172	169	165	159	153	146	138	130	119
22.5	208	208	206	202	196	189	180	171	161	150	137
19.5	248	248	245	239	232	222	211	199	186	173	156
17.0	284	284	280	274	264	252	239	224	208	192	173
15.0	314	313	310	302	291	278	262	244	226	208	186
13.0	344	344	339	331	318	302	284	265	244	224	199
11.0	374	373	368	358	344	327	306	284	262	239	211
9.0	401	400	395	384	368	349	327	302	278	252	222
7.0	425	424	418	406	389	368	344	318	291	264	232
5.0	445	444	437	424	406	384	358	331	302	274	239
3.0	458	457	451	437	418	395	368	339	310	280	245
1.0	465	464	457	444	424	400	373	344	313	284	248
0.0	466	465	458	445	425	401	374	344	314	284	248
-1.0	465	464	457	444	424	400	373	344	313	284	248
-3.0	458	457	451	437	418	395	368	339	310	280	245
-5.0	445	444	437	424	406	384	358	331	302	274	239
-7.0	425	424	418	406	389	368	344	318	291	264	232
-9.0	401	400	395	384	368	349	327	302	278	252	222
-11.0	374	373	368	358	344	327	306	284	262	239	211
-13.0	344	344	339	331	318	302	284	265	244	224	199
-15.0	314	313	310	302	291	278	262	244	226	208	186
-17.0	284	284	280	274	264	252	239	224	208	192	173
-19.5	248	248	245	239	232	222	211	199	186	173	156
-22.5	208	208	206	202	196	189	180	171	161	150	137
-25.5	174	174	172	169	165	159	153	146	138	130	119
-29.0	141	140	139	137	134	130	126	120	115	109	101
-33.0	110	110	110	108	106	104	101	97	93	89	84
-37.5	85	85	85	84	83	81	79	77	75	72	69
-42.5	66	66	66	66	65	64	63	62	60	59	57
-47.5	54	54	54	53	53	52	52	51	50	50	48
-55.0	42	42	42	42	41	41	41	40	40	40	39
-65.0	29	29	29	29	29	29	28	28	28	27	27
-75.0	14	14	14	14	14	14	14	13	13	13	13
-85.0	2	2	2	2	2	2	2	2	2	2	2

Vertical Angle (Degrees)

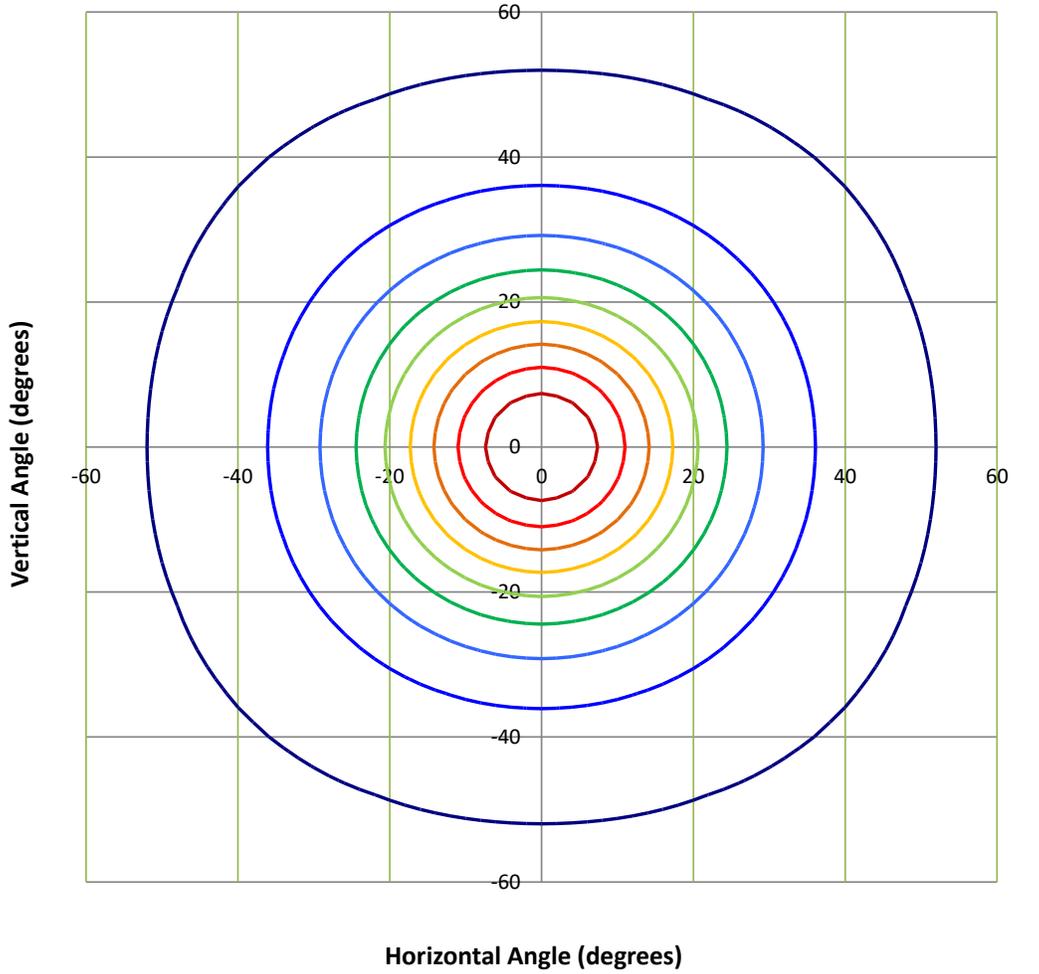


Candela Tabulation
Lateral Angle (Degrees)

	22.5	25.5	29	33	37.5	42.5	47.5	55	65	75	85
85.0	2	2	2	2	2	1	1	1	1	0	0
75.0	12	12	11	10	9	8	7	5	3	1	0
65.0	26	25	24	23	21	19	16	12	7	3	1
55.0	38	37	36	34	32	29	26	21	12	5	1
47.5	47	45	43	41	39	35	32	26	16	7	1
42.5	55	52	49	46	43	39	35	29	19	8	1
37.5	65	61	57	52	47	43	39	32	21	9	2
33.0	78	72	65	59	52	46	41	34	23	10	2
29.0	92	84	74	65	57	49	43	36	24	11	2
25.5	107	96	84	72	61	52	45	37	25	12	2
22.5	121	107	92	78	65	55	47	38	26	12	2
19.5	137	119	101	84	69	57	48	39	27	13	2
17.0	150	130	109	89	72	59	50	40	27	13	2
15.0	161	138	115	93	75	60	50	40	28	13	2
13.0	171	146	120	97	77	62	51	40	28	13	2
11.0	180	153	126	101	79	63	52	41	28	14	2
9.0	189	159	130	104	81	64	52	41	29	14	2
7.0	196	165	134	106	83	65	53	41	29	14	2
5.0	202	169	137	108	84	66	53	42	29	14	2
3.0	206	172	139	110	85	66	54	42	29	14	2
1.0	208	174	140	110	85	66	54	42	29	14	2
0.0	208	174	141	110	85	66	54	42	29	14	2
-1.0	208	174	140	110	85	66	54	42	29	14	2
-3.0	206	172	139	110	85	66	54	42	29	14	2
-5.0	202	169	137	108	84	66	53	42	29	14	2
-7.0	196	165	134	106	83	65	53	41	29	14	2
-9.0	189	159	130	104	81	64	52	41	29	14	2
-11.0	180	153	126	101	79	63	52	41	28	14	2
-13.0	171	146	120	97	77	62	51	40	28	13	2
-15.0	161	138	115	93	75	60	50	40	28	13	2
-17.0	150	130	109	89	72	59	50	40	27	13	2
-19.5	137	119	101	84	69	57	48	39	27	13	2
-22.5	121	107	92	78	65	55	47	38	26	12	2
-25.5	107	96	84	72	61	52	45	37	25	12	2
-29.0	92	84	74	65	57	49	43	36	24	11	2
-33.0	78	72	65	59	52	46	41	34	23	10	2
-37.5	65	61	57	52	47	43	39	32	21	9	2
-42.5	55	52	49	46	43	39	35	29	19	8	1
-47.5	47	45	43	41	39	35	32	26	16	7	1
-55.0	38	37	36	34	32	29	26	21	12	5	1
-65.0	26	25	24	23	21	19	16	12	7	3	1
-75.0	12	12	11	10	9	8	7	5	3	1	0
-85.0	2	2	2	2	2	1	1	1	1	0	0

Vertical Angle (Degrees)

Isocandela Diagram (Percent of Maximum Intensity)



- 419 cd (90%)
- 373 cd (80%)
- 326 cd (70%)
- 279 cd (60%)
- 233 cd (50%)
- 186 cd (40%)
- 139 cd (30%)
- 93 cd (20%)
- 46 cd (10%)