

REPORT NUMBER: ITL84459

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ISSUE DATE: 04/17/15

PREPARED FOR: LITELAB CORPORATION

CATALOG NUMBER: 202-L13-90-30-20

LUMINAIRE: MACHINED BLACK FINISHED STUDDED METAL HEAT SINK, ONE WHITE CIRCUIT BOARD WITH 9 LEDS, ONE FROSTED PLASTIC LENS BELOW EACH SET OF 3 LEDS WITH 1 CONICAL OPTIC PER LED WITH RECESSED TOP SEMI-HEMISPHERICAL CENTER, MOLDED BLACK PLASTIC LENS RETAINING FRAME WITH ONE APERTURE PER LENS.

LAMPS: NINE WHITE LIGHT EMITTING DIODES (LEDS) EACH WITH CLEAR HEMISPHERICAL INTEGRAL LENS, VERTICAL BASE-UP POSITION.

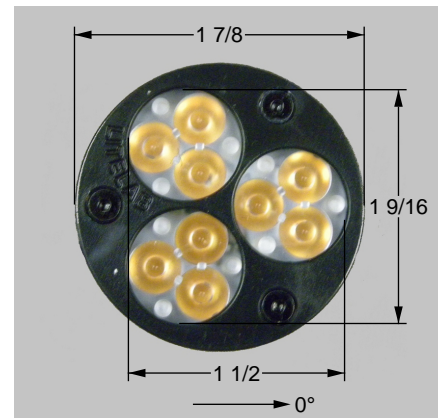
INPUT ELECTRICAL: 120.0 VOLTS, 22.2 WATTS, 0.192 AMPS

LED DRIVER: MAGTECH LD024D-CA07036-15

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC, 60Hz) TO THE DRIVER.

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 20.0 FEET



DEG	CANDELA	LUMENS
0	4002	
5	3734	324
15	1393	391
25	297	146
35	72	49
45	30	24
55	18	16
65	9	9
75	3	3
85	0	0
90	0	0

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 30	861	89.5
0- 40	910	94.6
0- 60	950	98.7
0- 90	963	100.0
90-180	0	0.0
0-180	963	100.0

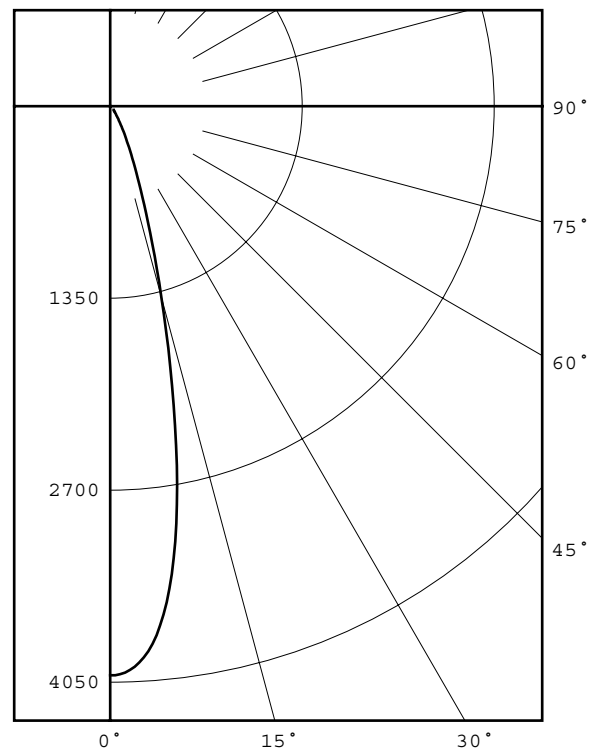
EFFICACY = 43.4 lm/W

CIE TYPE - DIRECT

LUMINAIRE SPACING CRITERION = 0.41

BEAM ANGLE (50%) : 25.1 DEGREES

FIELD ANGLE (10%) : 46.1 DEGREES



Checked B. HYRE

Approved R. BEATTIE
Lighting Engineer



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CANDELA DISTRIBUTION

0.0	4002
0.5	4001
1.0	3995
1.5	3984
2.0	3967
2.5	3945
3.0	3917
3.5	3882
4.0	3841
4.5	3791
5.0	3734
5.5	3668
6.0	3594
6.5	3511
7.0	3418
7.5	3319
8.0	3209
8.5	3096
9.0	2971
9.5	2840
10.0	2708
11.0	2429
11.5	2290
12.0	2150
12.5	2014
13.0	1879
13.5	1748
14.0	1622
14.5	1507
15.0	1393
16.0	1192
17.0	1014
18.0	862
19.0	736
20.0	630
22.5	431
25.0	297
27.5	206
30.0	143
32.5	101
35.0	72
37.5	54
40.0	43
42.5	35
45.0	30
47.5	26
50.0	23
52.5	20
55.0	18
57.5	15
60.0	13
62.5	11
65.0	9
67.5	8
70.0	6
72.5	4
75.0	3
77.5	2
80.0	1
82.5	0
85.0	0
87.5	0
90.0	0



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	93
5- 10	231
10- 15	235
15- 20	156
20- 25	93
25- 30	54
30- 35	31
35- 40	19
40- 45	13
45- 50	11
50- 55	9
55- 60	7
60- 65	5
65- 70	4
70- 75	2
75- 80	1
80- 85	0
85- 90	0

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	324
0- 20	715
0- 30	861
0- 40	910
0- 50	934
0- 60	950
0- 70	959
0- 80	962
0- 90	963



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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

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
0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	102	102	102	100
1	115	112	110	108	112	110	108	107	106	105	103	103	103	101	100	99	98	98	96
2	110	106	103	101	108	105	102	99	102	99	97	99	99	97	95	96	95	93	92
3	106	101	98	94	105	100	97	94	98	95	92	95	93	91	93	91	89	88	88
4	103	97	93	89	101	96	92	89	94	91	88	92	89	87	90	88	86	85	85
5	99	93	89	85	98	92	88	85	91	87	84	89	86	84	88	85	83	82	82
6	96	90	85	82	95	89	85	82	87	84	81	86	83	80	85	82	80	79	79
7	93	86	82	79	92	86	82	79	85	81	78	84	80	78	83	80	77	76	76
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74	74
9	88	81	77	74	87	80	76	73	80	76	73	79	75	73	78	75	73	72	72
10	86	78	74	71	85	78	74	71	77	74	71	77	73	71	76	73	71	70	70

ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS TEST SAMPLE.

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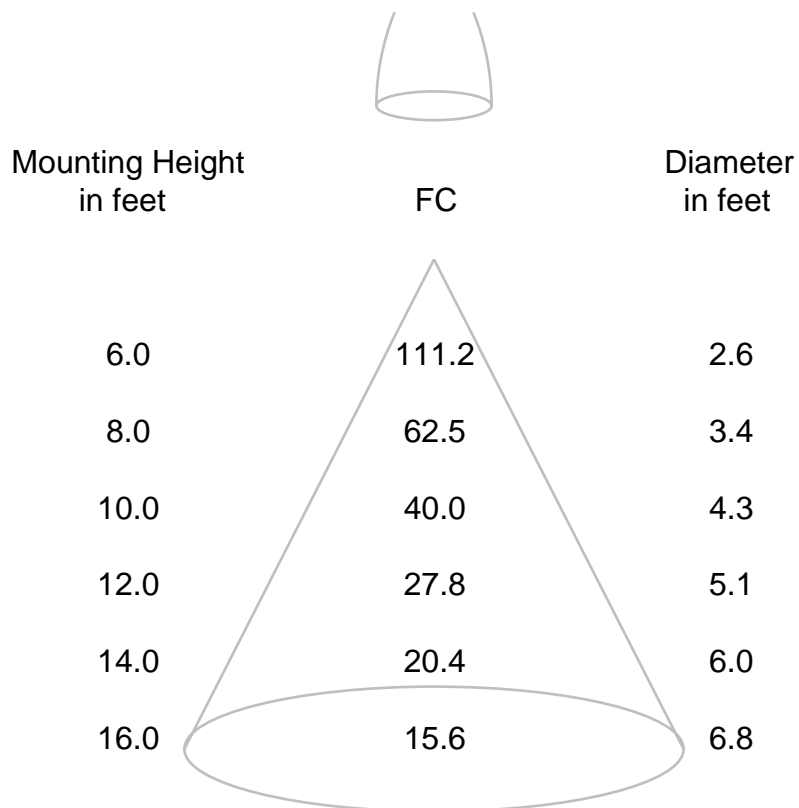
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CONE OF LIGHT DIAGRAM

(diameter shown is where fc value is half the fc at nadir)





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