



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PEH-1 & PEH-1-RC.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL90572-GONIOPHOTOMETRY

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[ISSUE DATE]06/22/18

[MANUFAC]PACE ELECTRONICS PRODUCTS

[LUMCAT] PEH-1 & PEH-1-RC

[LUMINAIRE]MOLDED WHITE PLASTIC HOUSING WITH WITH 2 MOLDED WHITE PLASTIC
[MORE]SWIVEL HEAD ASSEMBLIES, EACH HEAD ASSEMBLY CONSISTS OF: ONE CIRCUIT
[MORE]BOARD WITH 12 LEDS, MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH AND 1
[MORE]APERTURE PER LED, CLEAR PRISMATIC PLASTIC LENS. BOTH SWIVEL HEAD
[MORE]ASSEMBLIES WERE ILLUMINATED FOR THIS TEST. ONLY ONE LIGHT HEAD WAS
[MORE]MEASURED FOR LIGHT OUTPUT. LENS PRISMS IN.

[LAMP]TWELVE WHITE LIGHT EMITTING DIODES (LEDS) EACH WITH CLEAR HEMISPHERICAL
[MORE]INTEGRAL LENS, VERTICAL BASE-UP POSITION.

[_INPUT_ELECTRICAL]3.60 VOLTS, 1.53 WATTS, 0.424 AMPS

[_MOUNTING]SURFACE

[_LEDDRIVER]PACE ELECTRONICS PROPRIETARY

[_NOTE]DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT CLIENT REQUESTED

[MORE]INPUT VOLTAGE (3.6VDC) TO THE DRIVER. DRIVER INFORMATION PROVIDED BY

[MORE]CLIENT.

[OTHER]TEST PROCEDURE: IESNA LM-79-08

[OTHER]TEST DISTANCE = 20.0 FEET

[_ABSOLUTE LUMENS]72.2

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	72
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	47
Total Luminaire Watts	1.53
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.58
Spacing Criterion (90-270)	0.56
Spacing Criterion (Diagonal)	0.60
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.24 ft (Diameter)
Luminous Width (90-270)	0.24 ft (Diameter)
Luminous Height	0.03 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	723	806	695
55	356	356	356
65	200	200	200
75	110	110	110
85	92	92	92

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	157.5	157.5	157.5	157.5	157.5
2.5	156.4	156.5	156.2	157.4	157.7
5.0	152.1	152.4	152.6	153.2	153.6
7.5	145.1	146.1	146.6	146.0	145.6
10.0	131.2	134.7	137.2	133.4	130.5
12.5	111.2	117.1	122.8	114.3	109.3
15.0	92.3	96.1	103.2	94.2	89.8
17.5	76.6	78.3	81.9	77.0	75.1
20.0	64.1	64.0	64.4	62.7	62.6
22.5	52.5	52.5	51.9	51.0	51.0
25.0	41.9	42.4	41.2	41.0	41.0
27.5	32.8	32.8	32.2	32.1	32.1
30.0	24.9	24.8	24.3	24.5	24.2
32.5	18.8	18.3	17.9	17.7	17.3
35.0	13.2	12.9	12.7	12.3	12.2
37.5	8.3	8.6	9.2	8.4	8.1
40.0	5.1	5.6	6.3	5.5	5.2
42.5	3.4	3.6	4.2	3.5	3.4
45.0	2.6	2.5	2.9	2.5	2.5
47.5	1.9	1.9	2.0	1.9	1.9
50.0	1.5	1.5	1.6	1.6	1.6
52.5	1.3	1.3	1.3	1.3	1.3
55.0	1.1	1.1	1.1	1.1	1.1
57.5	0.9	0.9	0.8	0.9	0.9
60.0	0.8	0.8	0.8	0.8	0.8
62.5	0.6	0.7	0.7	0.6	0.7
65.0	0.5	0.4	0.5	0.4	0.5
67.5	0.5	0.5	0.5	0.5	0.5
70.0	0.3	0.4	0.4	0.4	0.3
72.5	0.3	0.3	0.3	0.3	0.4
75.0	0.2	0.2	0.2	0.2	0.2
77.5	0.3	0.2	0.2	0.3	0.2
80.0	0.2	0.2	0.2	0.2	0.2
82.5	0.2	0.2	0.2	0.1	0.1
85.0	0.1	0.1	0.1	0.1	0.1
87.5	0.1	0.1	0.1	0.1	0.1
90.0	0.1	0.1	0.1	0.1	0.1
92.5	0.0	0.0	0.0	0.0	0.0
95.0	0.0	0.0	0.0	0.0	0.0
97.5	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0
102.5	0.1	0.1	0.0	0.0	0.1
105.0	0.0	0.0	0.0	0.0	0.0
107.5	0.0	0.0	0.0	0.0	0.0
110.0	0.0	0.0	0.0	0.0	0.0
112.5	0.0	0.0	0.0	0.0	0.0
115.0	0.0	0.0	0.0	0.0	0.0
117.5	0.0	0.0	0.0	0.0	0.0
120.0	0.0	0.0	0.0	0.0	0.0
122.5	0.0	0.0	0.0	0.0	0.0
125.0	0.0	0.0	0.0	0.0	0.0
127.5	0.0	0.0	0.0	0.0	0.0
130.0	0.0	0.0	0.0	0.0	0.0
132.5	0.0	0.0	0.0	0.0	0.0

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CANDELA TABULATION - (Cont.)

135.0	0.0	0.0	0.0	0.0	0.0
137.5	0.0	0.0	0.0	0.0	0.0
140.0	0.0	0.0	0.0	0.0	0.0
142.5	0.0	0.0	0.0	0.0	0.0
145.0	0.0	0.0	0.0	0.0	0.0
147.5	0.0	0.0	0.0	0.0	0.0
150.0	0.0	0.0	0.0	0.0	0.0
152.5	0.0	0.0	0.0	0.0	0.0
155.0	0.0	0.0	0.0	0.0	0.0
157.5	0.0	0.0	0.0	0.0	0.0
160.0	0.0	0.0	0.0	0.0	0.0
162.5	0.0	0.0	0.0	0.0	0.0
165.0	0.0	0.0	0.0	0.0	0.0
167.5	0.0	0.0	0.0	0.0	0.0
170.0	0.0	0.0	0.0	0.0	0.0
172.5	0.0	0.0	0.0	0.0	0.0
175.0	0.0	0.0	0.0	0.0	0.0
177.5	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	40.56	N.A.	56.20
0-30	59.67	N.A.	82.60
0-40	67.97	N.A.	94.10
0-60	71.21	N.A.	98.60
0-80	72.03	N.A.	99.80
0-90	72.17	N.A.	100.00
10-90	58.16	N.A.	80.60
20-40	27.42	N.A.	38.00
20-50	29.66	N.A.	41.10
40-70	3.78	N.A.	5.20
60-80	0.82	N.A.	1.10
70-80	0.27	N.A.	0.40
80-90	0.14	N.A.	0.20
90-110	0.03	N.A.	0.00
90-120	0.03	N.A.	0.00
90-130	0.03	N.A.	0.00
90-150	0.03	N.A.	0.00
90-180	0.03	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	72.20	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	14.01
10-20	26.54
20-30	19.12
30-40	8.30
40-50	2.25
50-60	0.99
60-70	0.54
70-80	0.27
80-90	0.14
90-100	0.01
100-110	0.01
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

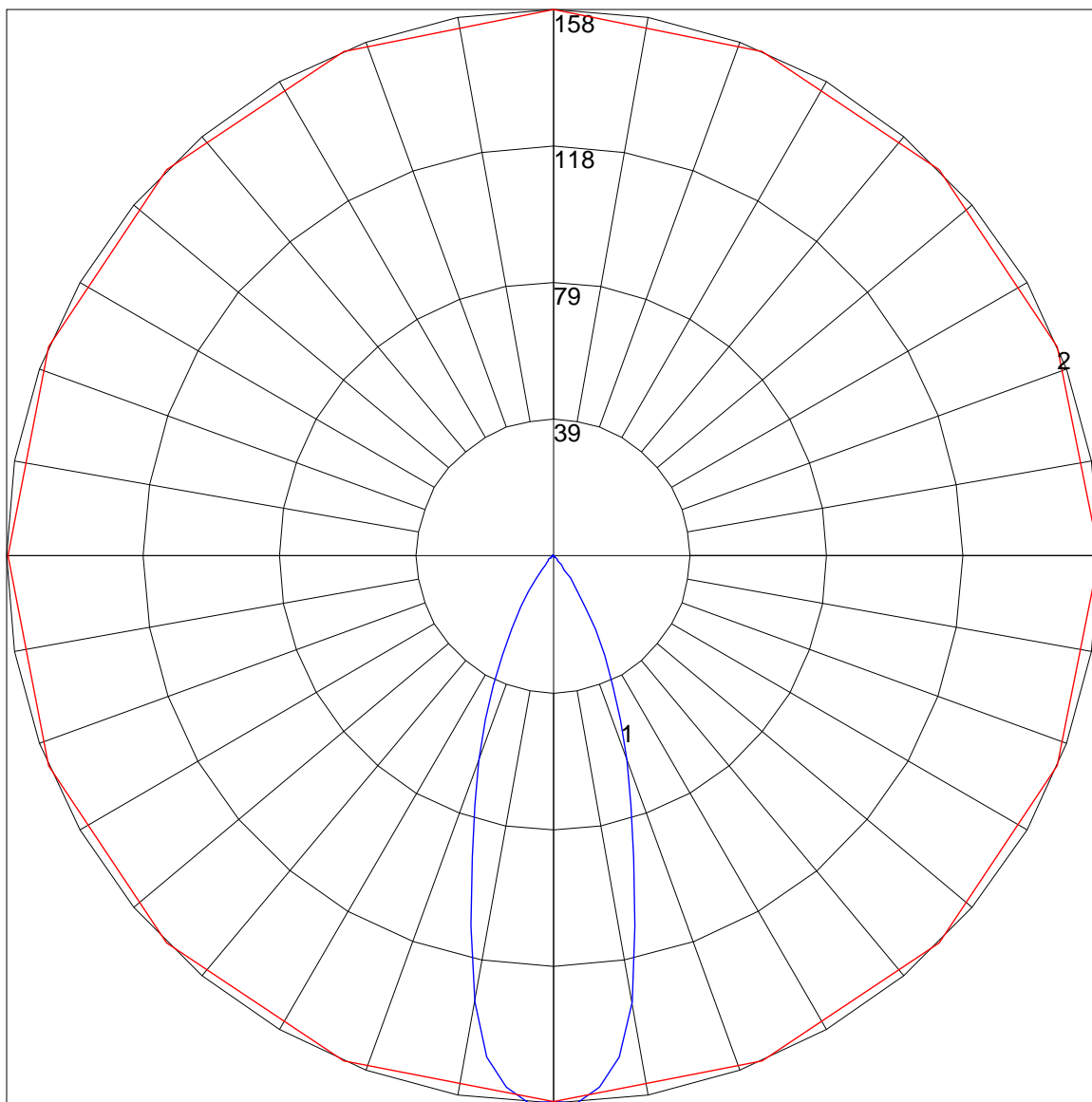
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	117	117	117	117	111	111	111	107	107	107	102	102	102	100
1	114	112	109	107	112	110	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89
3	105	99	94	91	103	97	93	90	95	91	89	92	90	87	90	88	86	84
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72
7	88	80	75	71	87	80	75	71	78	74	71	77	73	70	76	73	70	69
8	85	77	71	68	84	76	71	68	75	71	67	74	70	67	73	70	67	66
9	82	73	68	65	81	73	68	64	72	67	64	71	67	64	70	67	64	63
10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	60

POLAR GRAPH



Maximum Candela = 157.7 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)