

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1028074

Luminaire Tested: S125DIP-B610D375UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028074
REPORT IS A COMBINATION OF REPORTS P1002268 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D375UB30-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

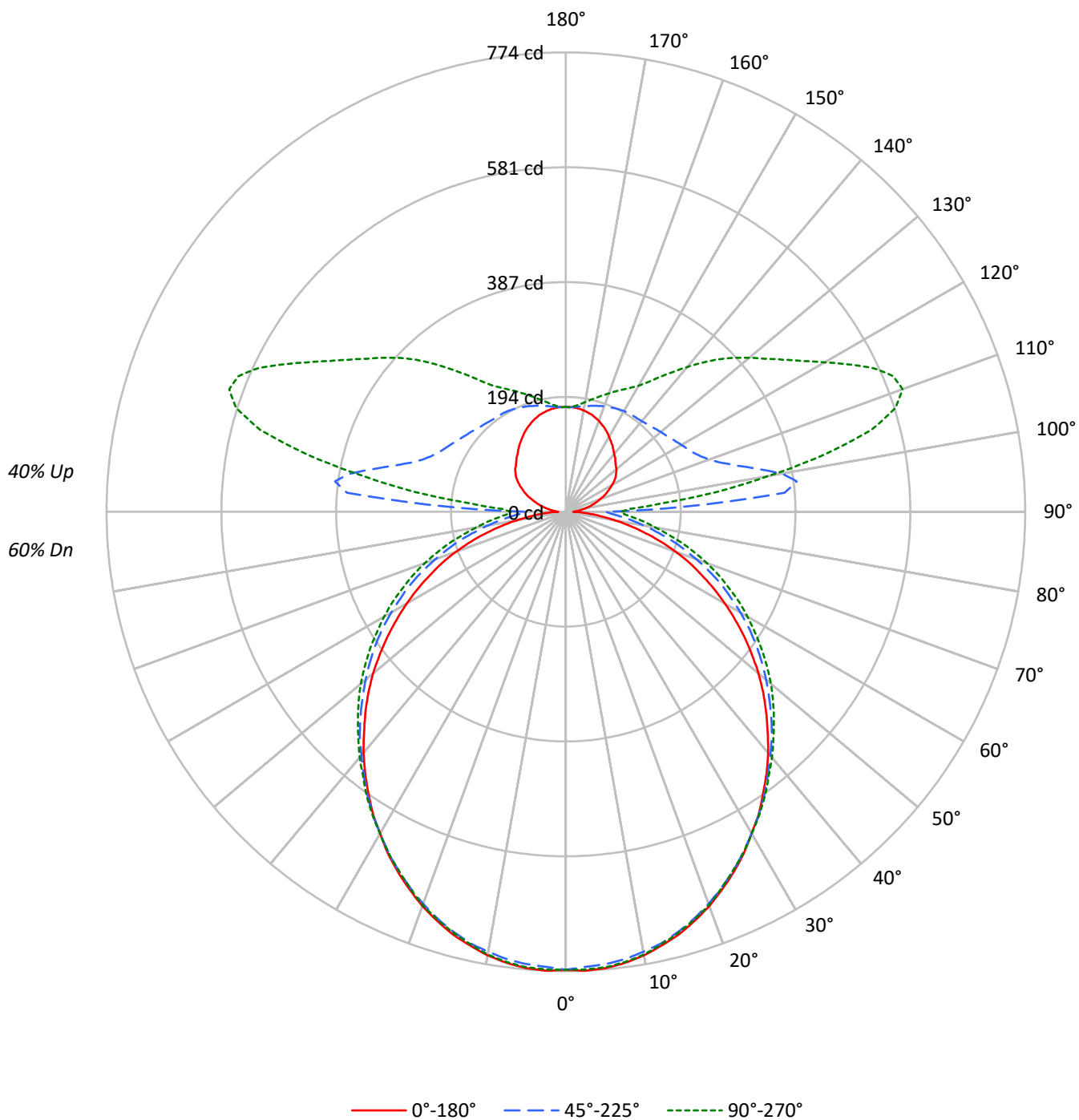
Lumens per Lamp: N/A
Luminaire Lumens: 3718.7 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 33.3
Input Voltage (V):
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: 24 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	110	110	110	110	102	102	102	102	89	89	89	77	77	77	66	66	66
1	99	94	90	86	92	88	85	81	77	74	71	66	64	62	57	55	54
2	90	82	75	70	84	77	71	66	67	62	58	58	54	51	49	47	45
3	82	72	64	58	76	67	60	55	59	53	49	51	47	43	43	40	38
4	75	63	55	49	70	59	52	46	52	46	41	45	40	37	39	35	32
5	69	56	48	42	64	53	45	40	46	40	36	40	36	32	35	31	28
6	63	51	42	36	59	48	40	34	42	36	31	36	31	28	31	28	24
7	58	46	37	32	54	43	35	30	38	32	27	33	28	24	29	25	22
8	54	41	33	28	51	39	32	27	35	29	24	30	25	22	26	22	19
9	51	38	30	25	47	36	29	24	32	26	22	28	23	20	24	20	17
10	47	35	27	22	44	33	26	21	29	24	20	26	21	18	23	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4945	4945	4945
5°	4953	4841	4853
10°	4916	4743	4730
15°	4856	4628	4577
20°	4776	4489	4425
25°	4680	4342	4242
30°	4564	4181	4075
35°	4455	4032	3921
40°	4345	3876	3767
45°	4221	3740	3627
50°	4102	3593	3502
55°	3958	3453	3356
60°	3801	3293	3206
65°	3636	3124	3038
70°	3448	2898	2862
75°	3152	2675	2648
80°	2763	2404	2411
85°	2378	2189	2288

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4221 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	2.0
10°-20°	207.3	5.6
20°-30°	308.3	8.3
30°-40°	365.1	9.8
40°-50°	377.5	10.2
50°-60°	347.7	9.4
60°-70°	281.1	7.6
70°-80°	188.1	5.1
80°-90°	97.9	2.6
90°-100°	187.5	5.0
100°-110°	316.2	8.5
110°-120°	284.6	7.7
120°-130°	223.7	6.0
130°-140°	174.2	4.7
140°-150°	127.7	3.4
150°-160°	89.0	2.4
160°-170°	52.5	1.4
170°-180°	17.1	0.5
0°-30°	588.7	15.8
0°-40°	953.8	25.6
0°-60°	1679.1	45.2
0°-90°	2246.2	60.4
90°-120°	788.3	21.2
90°-150°	1314.0	35.3
90°-180°	1473.0	39.6
0°-180°	3718.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	772	770	765	771	770	73
15°	737	738	732	737	734	208
25°	670	672	667	670	667	308
35°	580	585	583	585	585	363
45°	478	486	490	495	496	368
55°	367	379	391	400	403	328
65°	253	270	288	300	303	251
75°	139	159	183	198	202	148
85°	42	67	93	110	116	43
90°	12	40	68	87	93	9
95°	22	64	370	215	161	20
105°	47	75	299	564	533	50
115°	76	96	236	489	572	75
125°	102	119	216	384	447	91
135°	118	141	203	313	363	92
145°	137	156	198	250	278	85
155°	155	167	193	218	227	71
165°	169	174	185	196	199	48
175°	176	176	177	180	179	17
180°	176	176	176	176	176	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	771.8	771.8	771.8	771.8	771.8
2.5°	774.1	772.6	767.3	772.6	771.8
5°	771.8	770.3	765.0	771.1	770.3
7.5°	766.5	765.8	760.5	765.8	765.0
10°	759.0	759.0	752.9	758.2	757.5
12.5°	748.4	749.1	744.6	748.4	746.1
15°	737.0	737.8	732.5	737.0	734.0
17.5°	722.6	724.2	718.9	722.6	720.4
20°	706.8	708.3	703.0	705.2	705.2
22.5°	688.6	691.6	685.6	688.6	686.3
25°	669.7	671.9	667.4	670.4	666.7
27.5°	649.2	652.3	647.0	649.2	647.7
30°	625.8	630.3	625.8	627.3	626.5
32.5°	604.6	608.4	605.4	606.9	606.1
35°	579.6	584.9	582.7	584.9	584.9
37.5°	555.4	560.0	559.2	562.2	561.5
40°	530.4	536.5	535.7	538.8	540.3
42.5°	503.2	511.5	513.8	517.6	517.6
45°	477.5	485.8	489.6	494.9	495.6
47.5°	451.0	458.6	464.6	472.2	473.7
50°	423.8	432.1	440.4	448.7	451.0
52.5°	395.0	405.6	416.2	425.3	426.8
55°	367.0	379.1	391.2	399.5	402.6
57.5°	338.2	352.6	366.2	375.3	377.6
60°	309.5	324.6	339.8	351.1	353.4
62.5°	281.5	296.6	313.3	326.1	329.2
65°	252.7	270.1	288.3	299.7	302.7
67.5°	226.3	242.9	261.1	274.7	278.5
70°	196.7	214.1	233.8	248.2	252.7
72.5°	168.0	186.1	208.1	224.0	227.0
75°	139.2	158.9	183.1	198.3	202.0
77.5°	111.2	133.9	156.6	173.3	176.3
80°	85.5	108.2	133.9	150.6	153.6
82.5°	62.0	86.3	112.7	128.6	134.7
85°	41.6	66.6	93.1	109.7	115.8
87.5°	26.5	50.7	76.4	93.8	99.1
90°	12.5	39.5	67.7	87.0	93.0
92.5°	15.9	61.6	200.8	113.6	107.3
95°	21.5	64.2	370.1	214.8	160.7
97.5°	27.2	64.7	392.4	326.2	256.5
100°	33.2	67.2	369.4	429.0	346.2
102.5°	39.9	71.2	332.6	515.5	447.6
105°	47.0	75.1	299.3	564.2	533.0
107.5°	53.7	80.1	274.3	575.9	582.6
110°	61.1	85.5	256.7	558.0	603.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	69.3	90.8	245.1	525.0	597.2
115°	76.3	96.4	236.4	489.1	572.4
117.5°	82.7	102.1	230.2	455.4	537.6
120°	89.8	108.3	225.1	427.4	503.4
122.5°	96.5	113.4	220.2	403.4	472.6
125°	102.5	118.9	215.8	384.3	446.7
127.5°	106.8	124.8	212.0	366.6	423.5
130°	111.4	131.2	209.0	349.6	403.7
132.5°	114.2	137.0	206.0	331.4	383.9
135°	118.1	141.0	203.0	313.2	363.1
137.5°	123.1	145.5	201.1	295.2	340.8
140°	126.6	149.2	199.1	278.2	318.3
142.5°	131.6	152.0	198.0	263.3	297.0
145°	136.6	155.5	197.6	250.0	277.7
147.5°	141.1	158.8	196.9	238.8	259.3
150°	145.7	161.6	195.9	230.0	245.4
152.5°	150.7	164.4	194.4	223.8	235.3
155°	155.0	166.7	192.7	217.8	227.1
157.5°	158.9	169.0	190.9	212.0	219.7
160°	162.8	170.8	189.1	206.4	212.2
162.5°	166.0	172.6	187.0	201.2	205.5
165°	169.2	173.9	184.8	196.0	199.1
167.5°	171.3	174.5	182.7	191.2	193.0
170°	173.5	175.4	180.9	186.6	187.7
172.5°	174.9	175.8	178.8	182.9	182.7
175°	176.0	176.0	177.4	179.5	178.8
177.5°	176.7	176.0	176.3	177.4	176.3
180°	176.3	176.3	176.3	176.3	176.3

(END OF REPORT)