

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: P1028009

Luminaire Tested: S125DIP-B610D1090UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028009
REPORT IS A COMBINATION OF REPORTS P1002173 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D1090UB50-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

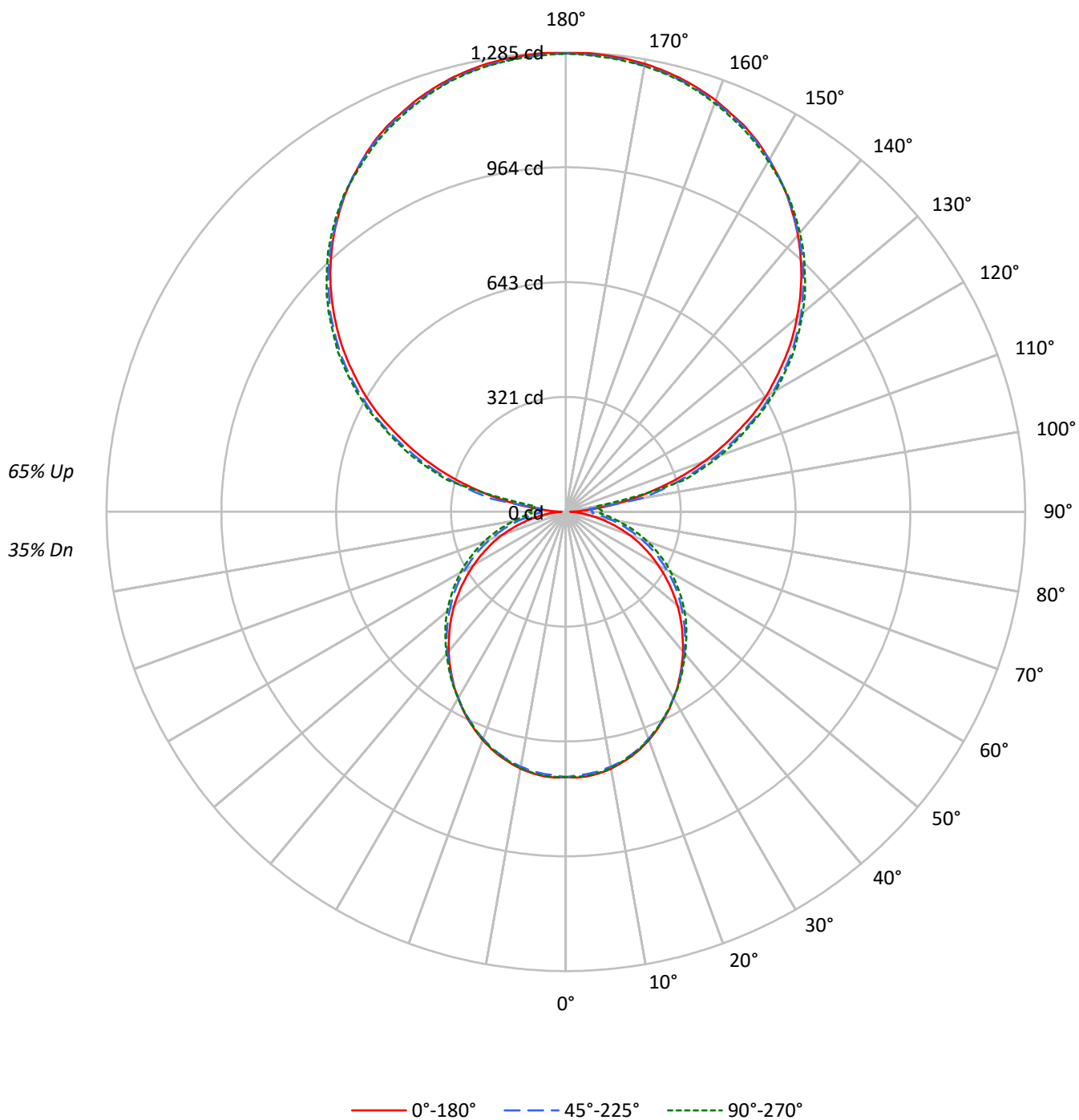
Lumens per Lamp: N/A
Luminaire Lumens: 6239.1 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
Input Voltage (V):
Input Current (Ain): 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	103	103	103	103	93	93	93	93	75	75	75	58	58	58	42	42	42
1	94	89	85	82	85	81	77	74	65	62	60	50	48	47	36	35	34
2	85	78	72	66	77	70	65	61	56	53	49	44	41	39	32	30	29
3	78	68	61	55	70	62	55	50	50	45	41	38	35	33	28	26	24
4	71	60	52	46	64	54	48	42	44	39	35	34	30	28	25	22	21
5	65	53	45	39	58	48	41	36	39	34	30	30	27	24	22	20	18
6	60	48	40	34	54	43	36	31	35	30	26	27	24	21	20	18	16
7	55	43	35	30	49	39	32	27	32	26	23	25	21	18	18	16	14
8	51	39	31	26	46	35	29	24	29	24	20	23	19	16	17	14	12
9	47	35	28	23	43	32	26	21	26	21	18	21	17	14	15	13	11
10	44	32	25	20	40	30	23	19	24	19	16	19	16	13	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4755	4755	4755
5°	4762	4655	4667
10°	4727	4560	4547
15°	4670	4450	4401
20°	4592	4316	4255
25°	4500	4174	4079
30°	4388	4020	3918
35°	4284	3877	3770
40°	4178	3727	3622
45°	4058	3596	3488
50°	3943	3455	3367
55°	3806	3320	3227
60°	3655	3166	3083
65°	3497	3004	2920
70°	3316	2787	2752
75°	3032	2573	2547
80°	2656	2312	2319
85°	2287	2104	2199

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4058 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	1.1
10°-20°	199.4	3.2
20°-30°	296.5	4.8
30°-40°	351.1	5.6
40°-50°	363.0	5.8
50°-60°	334.4	5.4
60°-70°	270.3	4.3
70°-80°	180.9	2.9
80°-90°	95.4	1.5
90°-100°	96.2	1.5
100°-110°	328.2	5.3
110°-120°	547.0	8.8
120°-130°	683.5	11.0
130°-140°	725.7	11.6
140°-150°	676.4	10.8
150°-160°	546.1	8.8
160°-170°	353.2	5.7
170°-180°	121.8	2.0
0°-30°	566.0	9.1
0°-40°	917.1	14.7
0°-60°	1614.5	25.9
0°-90°	2161.0	34.6
90°-120°	971.4	15.6
90°-150°	3057.0	49.0
90°-180°	4078.0	65.4
0°-180°	6239.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	742	742	742	742	742	
5°	742	741	736	741	741	70
15°	709	709	704	709	706	200
25°	644	646	642	645	641	296
35°	557	562	560	562	562	349
45°	459	467	471	476	477	354
55°	353	364	376	384	387	315
65°	243	260	277	288	291	241
75°	134	153	176	191	194	142
85°	40	64	90	106	111	42
90°	13	44	75	96	104	11
95°	64	80	68	89	94	74
105°	286	301	323	338	342	303
115°	529	539	559	568	567	524
125°	749	755	769	777	778	669
135°	932	937	940	948	946	718
145°	1079	1080	1080	1085	1082	675
155°	1188	1182	1184	1187	1179	547
165°	1254	1248	1249	1254	1247	354
175°	1282	1276	1277	1285	1276	122
180°	1282	1282	1282	1282	1282	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	742.1	742.1	742.1	742.1	742.1
2.5°	744.3	742.9	737.8	742.9	742.1
5°	742.1	740.7	735.6	741.4	740.7
7.5°	737.0	736.3	731.2	736.3	735.6
10°	729.8	729.8	723.9	729.0	728.3
12.5°	719.6	720.3	715.9	719.6	717.4
15°	708.7	709.4	704.3	708.7	705.8
17.5°	694.8	696.3	691.2	694.8	692.7
20°	679.6	681.0	675.9	678.1	678.1
22.5°	662.1	665.0	659.2	662.1	659.9
25°	643.9	646.1	641.7	644.6	641.0
27.5°	624.3	627.2	622.1	624.3	622.8
30°	601.7	606.1	601.7	603.2	602.4
32.5°	581.3	585.0	582.1	583.5	582.8
35°	557.3	562.4	560.2	562.4	562.4
37.5°	534.0	538.4	537.7	540.6	539.9
40°	510.0	515.9	515.1	518.0	519.5
42.5°	483.8	491.8	494.0	497.7	497.7
45°	459.1	467.1	470.7	475.8	476.6
47.5°	433.6	440.9	446.7	454.0	455.5
50°	407.4	415.4	423.5	431.5	433.6
52.5°	379.8	390.0	400.2	408.9	410.4
55°	352.9	364.5	376.2	384.2	387.1
57.5°	325.2	339.1	352.1	360.9	363.1
60°	297.6	312.1	326.7	337.6	339.8
62.5°	270.7	285.2	301.2	313.6	316.5
65°	243.0	259.7	277.2	288.1	291.0
67.5°	217.5	233.6	251.0	264.1	267.8
70°	189.2	205.9	224.8	238.6	243.0
72.5°	161.5	179.0	200.1	215.4	218.3
75°	133.9	152.8	176.1	190.6	194.3
77.5°	107.0	128.8	150.6	166.6	169.5
80°	82.2	104.0	128.8	144.8	147.7
82.5°	59.7	82.9	108.4	123.7	129.5
85°	40.0	64.0	89.5	105.5	111.3
87.5°	25.5	48.7	73.5	90.2	95.3
90°	12.6	43.5	74.9	96.4	104.3
92.5°	28.3	40.8	72.0	92.8	98.8
95°	63.7	79.7	68.3	89.1	94.2
97.5°	110.4	133.6	67.3	84.5	90.6
100°	166.7	184.9	212.0	85.6	86.2
102.5°	224.0	241.6	266.1	282.5	207.1
105°	285.9	301.4	323.2	337.8	342.0
107.5°	349.8	360.0	383.0	398.6	399.1
110°	411.8	420.5	442.9	453.8	459.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	470.8	480.1	500.8	510.1	513.3
115°	529.0	538.8	558.7	568.0	566.6
117.5°	590.0	593.7	615.7	622.3	625.5
120°	647.0	648.2	667.9	678.3	677.9
122.5°	696.7	702.1	719.1	728.9	727.6
125°	748.9	754.9	769.4	777.3	778.0
127.5°	798.6	802.6	814.0	823.0	819.8
130°	844.2	848.3	859.3	866.7	865.6
132.5°	889.1	894.8	899.2	909.4	907.5
135°	931.9	936.8	940.0	947.6	945.5
137.5°	971.8	976.7	977.7	986.5	984.7
140°	1010.0	1011.9	1011.7	1021.6	1018.8
142.5°	1045.1	1045.4	1047.3	1053.8	1051.1
145°	1079.3	1080.5	1080.5	1085.1	1082.3
147.5°	1109.1	1109.1	1110.0	1112.5	1107.2
150°	1137.6	1135.7	1137.6	1139.5	1132.6
152.5°	1165.1	1160.4	1162.3	1164.2	1157.5
155°	1187.9	1182.2	1184.1	1187.0	1179.4
157.5°	1206.0	1203.1	1203.1	1206.0	1198.4
160°	1225.0	1219.3	1220.2	1224.1	1216.4
162.5°	1240.2	1234.5	1235.5	1241.2	1232.6
165°	1253.5	1247.8	1248.8	1254.5	1246.9
167.5°	1264.0	1258.3	1259.2	1265.9	1257.3
170°	1272.5	1265.9	1266.8	1274.4	1265.9
172.5°	1278.2	1271.6	1273.5	1280.1	1271.6
175°	1282.0	1276.3	1277.3	1284.9	1276.3
177.5°	1284.9	1279.2	1280.1	1286.8	1279.2
180°	1282.0	1282.0	1282.0	1282.0	1282.0

(END OF REPORT)