

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: P1027992

Luminaire Tested: S125DIP-B610D1090UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027992
REPORT IS A COMBINATION OF REPORTS P1002156 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D1090UB35-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

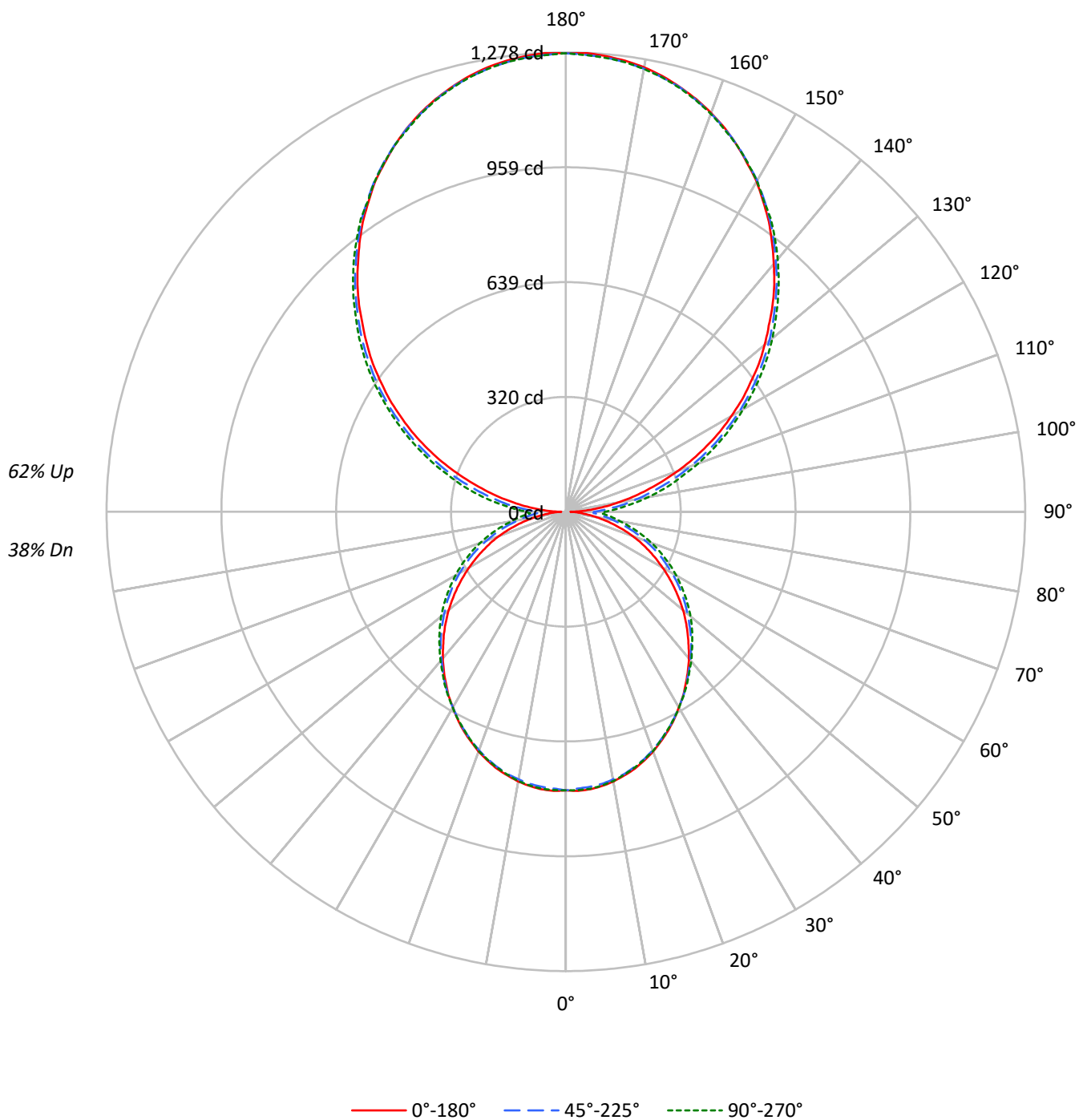
Lumens per Lamp: N/A
Luminaire Lumens: 5963.0 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45
1	95	90	86	82	86	82	78	75	66	64	62	52	50	49	39	38	37
2	86	78	72	67	77	71	66	61	58	54	51	45	43	40	34	32	31
3	78	69	61	55	70	62	56	51	51	46	42	40	37	34	30	28	26
4	71	60	53	47	64	55	48	43	45	40	36	35	32	29	27	24	22
5	65	54	46	40	59	49	42	37	40	35	31	32	28	25	24	21	19
6	60	48	40	34	54	44	37	32	36	31	27	28	25	22	22	19	17
7	55	43	35	30	50	40	33	28	32	27	23	26	22	19	20	17	15
8	51	39	31	26	46	36	29	24	30	24	21	24	20	17	18	15	13
9	48	36	28	23	43	33	26	22	27	22	18	22	18	15	17	14	12
10	45	33	25	21	40	30	24	19	25	20	16	20	16	14	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4966	4966	4966
5°	4974	4862	4873
10°	4936	4763	4749
15°	4876	4647	4596
20°	4795	4508	4444
25°	4699	4360	4259
30°	4583	4198	4092
35°	4475	4049	3938
40°	4364	3892	3782
45°	4239	3756	3642
50°	4119	3608	3517
55°	3974	3467	3369
60°	3817	3307	3220
65°	3652	3137	3050
70°	3464	2911	2874
75°	3165	2687	2660
80°	2776	2415	2422
85°	2390	2199	2297

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4239 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	1.2
10°-20°	208.2	3.5
20°-30°	309.6	5.2
30°-40°	366.7	6.1
40°-50°	379.1	6.4
50°-60°	349.2	5.9
60°-70°	282.3	4.7
70°-80°	188.9	3.2
80°-90°	99.6	1.7
90°-100°	139.8	2.3
100°-110°	292.5	4.9
110°-120°	454.5	7.6
120°-130°	578.0	9.7
130°-140°	637.2	10.7
140°-150°	619.3	10.4
150°-160°	519.1	8.7
160°-170°	345.0	5.8
170°-180°	120.7	2.0
0°-30°	591.2	9.9
0°-40°	957.8	16.1
0°-60°	1686.1	28.3
0°-90°	2256.9	37.8
90°-120°	886.9	14.9
90°-150°	2721.3	45.6
90°-180°	3706.0	62.1
0°-180°	5963.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	775	775	775	775	775	
5°	775	774	768	774	774	74
15°	740	741	736	740	737	209
25°	672	675	670	673	669	310
35°	582	587	585	587	587	364
45°	480	488	492	497	498	370
55°	368	381	393	401	404	329
65°	254	271	290	301	304	252
75°	140	160	184	199	203	148
85°	42	67	94	110	116	44
90°	13	45	78	101	109	13
95°	74	96	132	156	163	75
105°	233	250	279	300	308	249
115°	432	442	463	476	480	428
125°	627	633	649	659	662	562
135°	814	819	825	835	835	627
145°	984	988	991	994	994	615
155°	1126	1126	1127	1131	1126	519
165°	1224	1222	1223	1227	1221	345
175°	1273	1269	1269	1275	1268	121
180°	1276	1276	1276	1276	1276	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	775.1	775.1	775.1	775.1	775.1
2.5°	777.3	775.8	770.5	775.8	775.1
5°	775.1	773.5	768.2	774.3	773.5
7.5°	769.7	769.0	763.7	769.0	768.2
10°	762.1	762.1	756.1	761.4	760.6
12.5°	751.5	752.3	747.7	751.5	749.2
15°	740.1	740.9	735.5	740.1	737.1
17.5°	725.7	727.2	721.9	725.7	723.4
20°	709.7	711.2	705.9	708.2	708.2
22.5°	691.5	694.5	688.4	691.5	689.2
25°	672.5	674.8	670.2	673.2	669.4
27.5°	652.0	655.0	649.7	652.0	650.4
30°	628.4	633.0	628.4	629.9	629.2
32.5°	607.1	610.9	607.9	609.4	608.6
35°	582.1	587.4	585.1	587.4	587.4
37.5°	557.7	562.3	561.5	564.6	563.8
40°	532.7	538.7	538.0	541.0	542.5
42.5°	505.3	513.7	515.9	519.7	519.7
45°	479.5	487.8	491.6	497.0	497.7
47.5°	452.9	460.5	466.6	474.2	475.7
50°	425.5	433.9	442.2	450.6	452.9
52.5°	396.6	407.3	417.9	427.0	428.6
55°	368.5	380.7	392.8	401.2	404.2
57.5°	339.7	354.1	367.8	376.9	379.2
60°	310.8	326.0	341.2	352.6	354.9
62.5°	282.7	297.9	314.6	327.5	330.5
65°	253.8	271.3	289.5	300.9	303.9
67.5°	227.2	243.9	262.2	275.8	279.6
70°	197.6	215.0	234.8	249.2	253.8
72.5°	168.7	186.9	209.0	224.9	228.0
75°	139.8	159.6	183.9	199.1	202.9
77.5°	111.7	134.5	157.3	174.0	177.0
80°	85.9	108.7	134.5	151.2	154.3
82.5°	62.3	86.6	113.2	129.2	135.3
85°	41.8	66.9	93.5	110.2	116.3
87.5°	26.6	50.9	76.7	94.2	99.5
90°	13.2	45.4	78.2	100.6	108.9
92.5°	40.4	67.4	103.0	126.6	133.9
95°	74.4	96.1	131.9	155.6	162.9
97.5°	108.4	127.7	166.6	188.5	194.8
100°	147.4	163.3	200.5	225.4	231.9
102.5°	189.3	208.6	237.2	262.3	269.8
105°	233.1	250.3	279.0	300.2	308.5
107.5°	281.1	296.6	323.7	341.9	346.4
110°	330.9	345.0	369.2	386.7	391.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	382.5	391.4	415.9	430.6	433.9
115°	432.4	441.7	463.4	476.1	479.7
117.5°	483.3	488.0	509.0	522.9	524.3
120°	530.9	538.2	556.7	569.6	570.1
122.5°	581.7	583.5	603.2	614.4	615.9
125°	627.4	632.6	648.8	658.9	661.8
127.5°	677.3	679.5	693.4	703.8	706.4
130°	722.0	726.1	738.8	748.4	750.3
132.5°	765.8	774.8	781.4	791.1	791.1
135°	813.5	818.8	825.0	834.9	834.8
137.5°	858.2	863.4	868.4	878.5	876.6
140°	900.2	905.1	908.8	919.2	917.2
142.5°	942.8	946.0	950.0	957.8	955.9
145°	984.5	987.7	990.7	994.5	994.5
147.5°	1022.4	1025.4	1027.4	1031.9	1025.4
150°	1061.2	1060.2	1064.1	1064.1	1062.9
152.5°	1092.9	1094.9	1095.9	1098.9	1094.9
155°	1125.7	1125.7	1126.7	1130.6	1125.7
157.5°	1155.5	1153.5	1154.5	1158.4	1151.5
160°	1181.3	1178.3	1179.3	1183.3	1178.3
162.5°	1204.1	1202.1	1202.1	1207.1	1201.1
165°	1224.0	1222.0	1223.0	1226.9	1221.0
167.5°	1241.8	1237.8	1237.8	1243.8	1237.8
170°	1255.7	1251.7	1251.7	1257.7	1250.8
172.5°	1265.6	1261.7	1261.7	1267.6	1261.7
175°	1272.6	1268.6	1268.6	1274.6	1267.6
177.5°	1277.6	1273.6	1272.6	1278.5	1271.6
180°	1275.6	1275.6	1275.6	1275.6	1275.6

(END OF REPORT)