

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: P1027443

Luminaire Tested: S125DIP-B1090D610UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027443
REPORT IS A COMBINATION OF REPORTS P1001403 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D610UB27-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

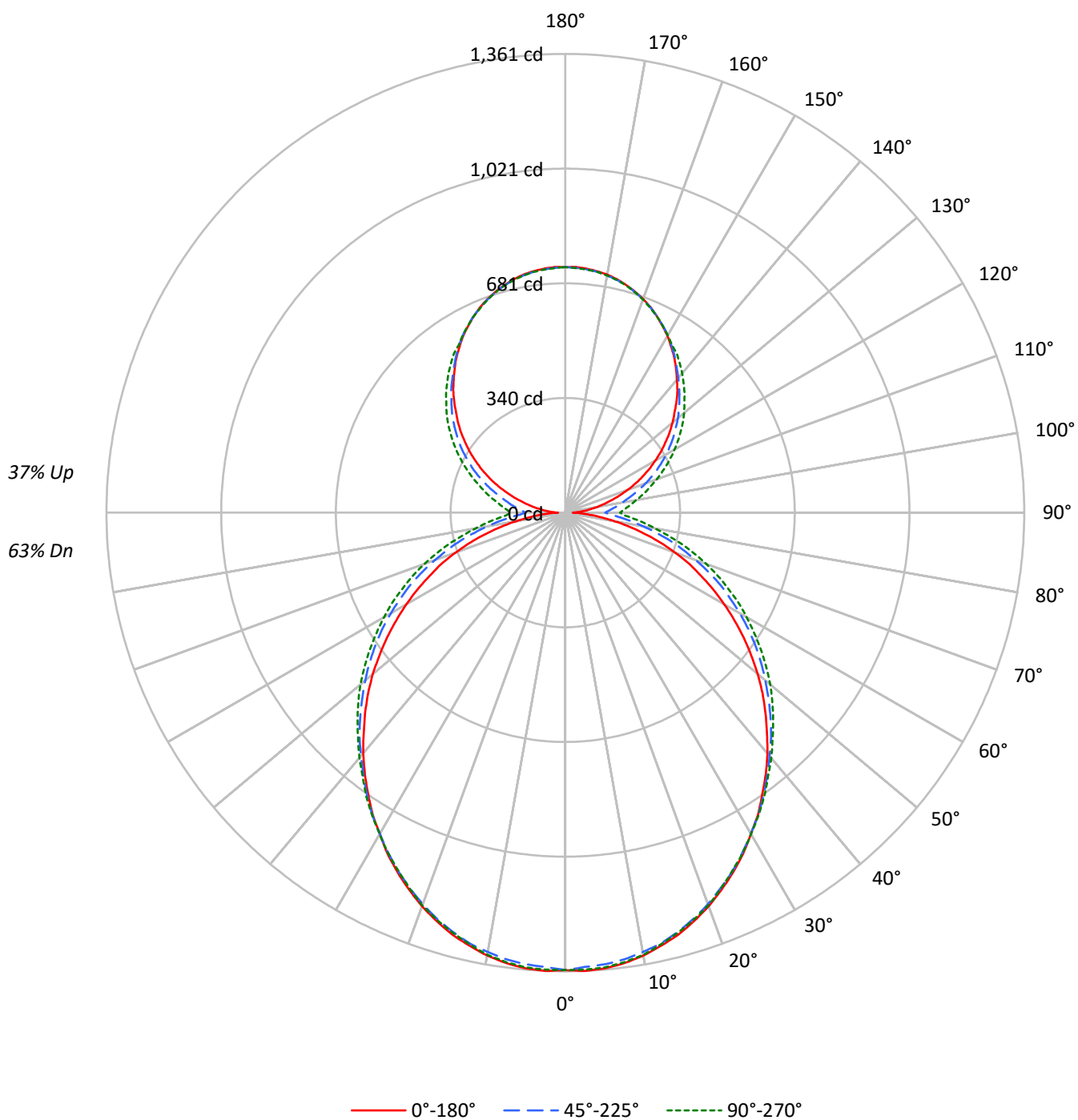
Lumens per Lamp: N/A
Luminaire Lumens: 6238.0 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 62.2
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	110	110	110	110	103	103	103	103	91	91	91	79	79	79	68	68	68
1	100	95	91	87	93	89	85	82	78	75	73	68	66	64	59	57	56
2	91	82	76	70	85	77	72	67	68	63	59	59	56	53	51	49	46
3	82	72	64	58	77	68	61	55	60	54	50	52	48	44	45	42	39
4	75	64	55	49	70	60	52	47	53	47	42	46	42	38	40	37	33
5	69	57	48	42	64	54	46	40	47	41	36	42	37	33	36	32	29
6	64	51	42	36	59	48	40	35	43	36	32	38	32	28	33	29	25
7	59	46	38	32	55	43	36	30	39	32	28	34	29	25	30	26	23
8	55	42	34	28	51	40	32	27	35	29	25	31	26	22	27	23	20
9	51	38	30	25	48	36	29	24	32	26	22	29	24	20	25	21	18
10	48	35	28	23	45	33	26	22	30	24	20	27	22	18	24	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8695	8695	8695
5°	8709	8513	8533
10°	8644	8339	8315
15°	8539	8137	8047
20°	8397	7893	7780
25°	8228	7634	7458
30°	8024	7351	7165
35°	7834	7090	6895
40°	7641	6815	6623
45°	7421	6576	6378
50°	7212	6317	6157
55°	6960	6071	5900
60°	6684	5790	5637
65°	6394	5493	5341
70°	6063	5096	5033
75°	5543	4705	4656
80°	4857	4228	4240
85°	4185	3847	4022

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7421 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	2.1
10°-20°	364.6	5.8
20°-30°	542.1	8.7
30°-40°	642.0	10.3
40°-50°	663.7	10.6
50°-60°	611.4	9.8
60°-70°	494.3	7.9
70°-80°	330.7	5.3
80°-90°	172.1	2.8
90°-100°	144.7	2.3
100°-110°	214.9	3.4
110°-120°	291.6	4.7
120°-130°	348.2	5.6
130°-140°	371.8	6.0
140°-150°	355.2	5.7
150°-160°	296.4	4.8
160°-170°	197.0	3.2
170°-180°	69.0	1.1
0°-30°	1035.1	16.6
0°-40°	1677.1	26.9
0°-60°	2952.3	47.3
0°-90°	3949.3	63.3
90°-120°	651.2	10.4
90°-150°	1726.3	27.7
90°-180°	2289.0	36.7
0°-180°	6238.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1357	1357	1357	1357	1357	
5°	1357	1354	1345	1356	1354	129
15°	1296	1297	1288	1296	1291	365
25°	1178	1182	1174	1179	1172	542
35°	1019	1028	1024	1028	1028	638
45°	840	854	861	870	872	648
55°	645	667	688	702	708	577
65°	444	475	507	527	532	441
75°	245	279	322	349	355	259
85°	73	117	164	193	204	76
90°	22	69	118	152	163	17
95°	54	90	141	174	184	52
105°	141	165	209	239	250	150
115°	252	264	300	323	330	250
125°	362	364	391	411	417	324
135°	466	468	478	496	500	360
145°	563	564	566	572	576	352
155°	643	643	643	646	643	296
165°	699	698	698	701	697	197
175°	727	724	724	728	724	69
180°	728	728	728	728	728	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1357.1	1357.1	1357.1	1357.1	1357.1
2.5°	1361.1	1358.4	1349.1	1358.4	1357.1
5°	1357.1	1354.4	1345.1	1355.8	1354.4
7.5°	1347.8	1346.4	1337.1	1346.4	1345.1
10°	1334.5	1334.5	1323.8	1333.1	1331.8
12.5°	1315.8	1317.2	1309.2	1315.8	1311.8
15°	1295.9	1297.2	1287.9	1295.9	1290.6
17.5°	1270.6	1273.3	1263.9	1270.6	1266.6
20°	1242.7	1245.3	1236.0	1240.0	1240.0
22.5°	1210.7	1216.1	1205.4	1210.7	1206.7
25°	1177.5	1181.5	1173.5	1178.8	1172.1
27.5°	1141.5	1146.9	1137.6	1141.5	1138.9
30°	1100.3	1108.3	1100.3	1103.0	1101.6
32.5°	1063.0	1069.7	1064.4	1067.0	1065.7
35°	1019.1	1028.5	1024.5	1028.5	1028.5
37.5°	976.6	984.5	983.2	988.5	987.2
40°	932.7	943.3	942.0	947.3	950.0
42.5°	884.8	899.4	903.4	910.0	910.0
45°	839.5	854.2	860.8	870.1	871.5
47.5°	793.0	806.3	816.9	830.2	832.9
50°	745.1	759.7	774.3	789.0	793.0
52.5°	694.5	713.1	731.8	747.7	750.4
55°	645.3	666.6	687.9	702.5	707.8
57.5°	594.7	620.0	643.9	659.9	663.9
60°	544.2	570.8	597.4	617.3	621.3
62.5°	494.9	521.5	550.8	573.4	578.8
65°	444.4	475.0	506.9	526.9	532.2
67.5°	397.8	427.1	459.0	483.0	489.6
70°	345.9	376.5	411.1	436.4	444.4
72.5°	295.4	327.3	365.9	393.8	399.1
75°	244.8	279.4	322.0	348.6	355.2
77.5°	195.6	235.5	275.4	304.7	310.0
80°	150.3	190.3	235.5	264.8	270.1
82.5°	109.1	151.7	198.2	226.2	236.8
85°	73.2	117.1	163.6	192.9	203.6
87.5°	46.6	89.1	134.4	165.0	174.3
90°	21.9	69.0	118.2	151.6	162.6
92.5°	35.6	77.0	128.7	161.9	172.4
95°	54.1	89.9	140.7	174.0	184.4
97.5°	72.7	105.2	157.0	188.3	198.3
100°	94.0	122.0	171.9	204.9	214.1
102.5°	117.0	145.2	189.2	221.5	231.2
105°	141.2	165.4	208.7	238.7	249.7
107.5°	167.6	189.1	230.6	258.9	266.8
110°	195.2	214.1	253.0	280.0	288.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	224.7	237.8	276.0	300.6	308.7
115°	252.3	263.9	299.6	322.9	330.4
117.5°	280.5	287.6	322.1	345.2	352.3
120°	307.7	314.4	345.6	368.3	373.9
122.5°	335.8	337.7	368.6	389.4	395.7
125°	361.8	363.9	391.1	411.3	417.3
127.5°	389.4	389.8	413.0	432.3	439.2
130°	415.0	416.5	436.2	454.3	459.8
132.5°	439.2	444.3	457.0	475.0	478.6
135°	466.4	468.4	478.2	495.5	500.0
137.5°	491.9	493.9	500.4	516.9	519.3
140°	514.9	517.7	520.8	536.5	539.0
142.5°	539.2	540.2	542.5	555.0	557.5
145°	563.0	564.0	565.7	572.4	576.0
147.5°	583.8	585.5	586.7	591.1	589.1
150°	605.9	605.4	607.6	607.6	607.8
152.5°	624.1	625.2	625.8	627.5	625.2
155°	642.8	642.8	643.4	645.6	642.8
157.5°	659.8	658.7	659.2	661.5	657.5
160°	674.5	672.8	673.4	675.7	672.8
162.5°	687.6	686.4	686.4	689.3	685.9
165°	698.9	697.8	698.3	700.6	697.2
167.5°	709.1	706.8	706.8	710.2	706.8
170°	717.0	714.8	714.8	718.2	714.2
172.5°	722.7	720.5	720.5	723.9	720.5
175°	726.7	724.4	724.4	727.8	723.9
177.5°	729.5	727.3	726.7	730.1	726.1
180°	728.4	728.4	728.4	728.4	728.4

(END OF REPORT)