

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: P1027372

Luminaire Tested: S125DIP-B1090D1270UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027372
REPORT IS A COMBINATION OF REPORTS P1001317 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D1270UB35-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

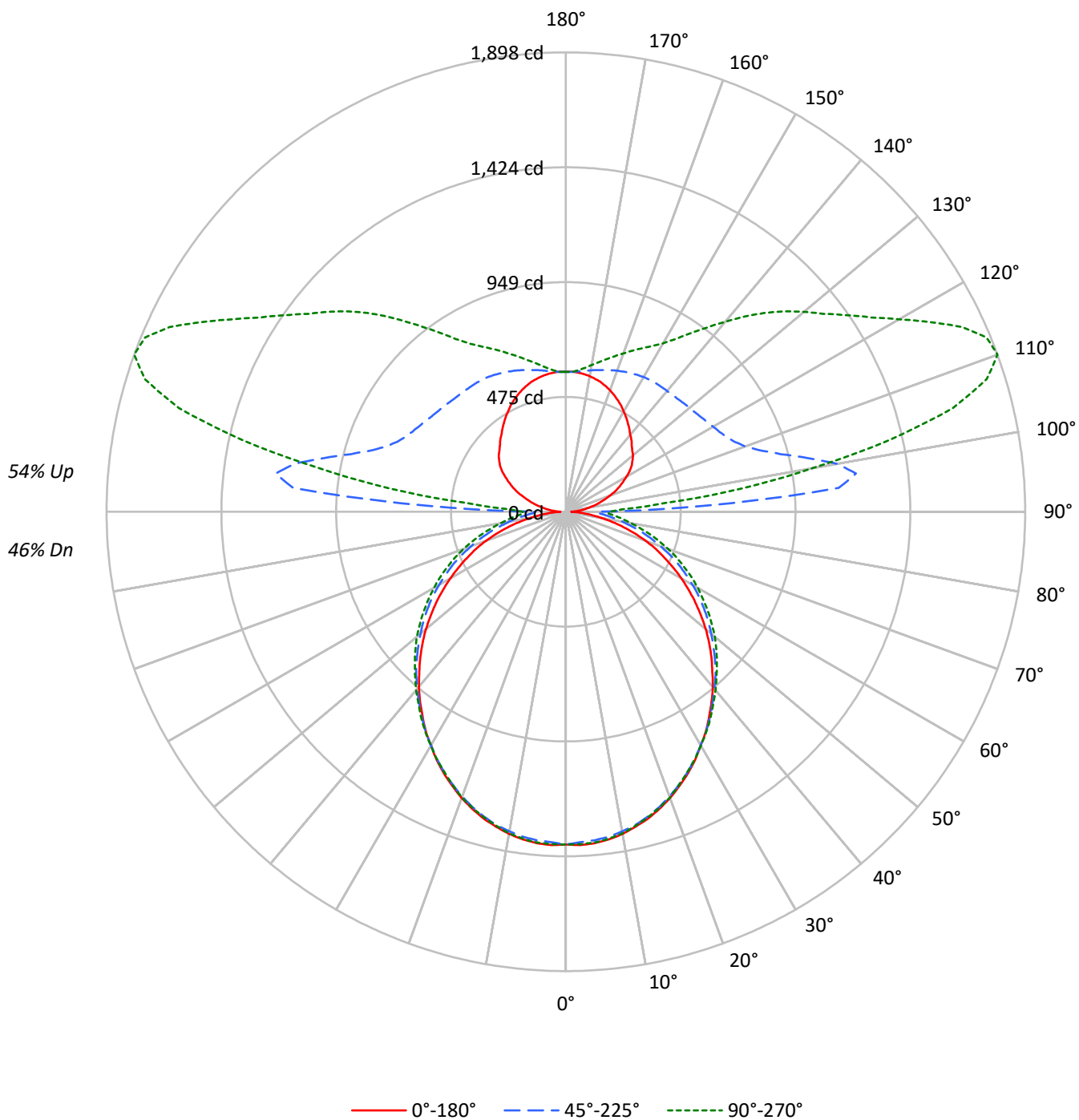
Lumens per Lamp: N/A
Luminaire Lumens: 8613.9 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 81.8
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53	46		
1	96	92	88	84	88	84	81	77	70	68	65	57	56	54	46	44	43	38		
2	87	80	73	68	80	73	68	63	61	57	54	50	47	45	40	38	36	31		
3	80	70	62	56	73	64	58	52	54	49	45	44	40	37	35	32	30	26		
4	73	62	54	47	66	57	50	44	48	42	38	39	35	32	31	28	26	22		
5	67	55	46	40	61	51	43	38	42	37	33	35	31	27	28	25	22	19		
6	61	49	41	35	56	45	38	33	38	32	28	32	27	24	25	22	20	17		
7	57	44	36	30	52	41	34	29	35	29	25	29	24	21	23	20	17	15		
8	52	40	32	27	48	37	30	25	31	26	22	26	22	19	21	18	16	13		
9	49	37	29	24	45	34	27	22	29	23	20	24	20	17	20	16	14	12		
10	46	33	26	21	42	31	24	20	26	21	18	22	18	15	18	15	13	11		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8807	8807	8807
5°	8821	8622	8643
10°	8755	8446	8422
15°	8648	8241	8150
20°	8504	7994	7880
25°	8334	7731	7554
30°	8127	7445	7257
35°	7935	7180	6984
40°	7738	6902	6708
45°	7517	6661	6460
50°	7304	6399	6236
55°	7049	6149	5976
60°	6770	5864	5709
65°	6477	5564	5409
70°	6142	5162	5097
75°	5615	4765	4716
80°	4922	4282	4295
85°	4237	3899	4073

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7517 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	1.5
10°-20°	369.2	4.3
20°-30°	549.1	6.4
30°-40°	650.3	7.5
40°-50°	672.3	7.8
50°-60°	619.3	7.2
60°-70°	500.6	5.8
70°-80°	335.0	3.9
80°-90°	175.5	2.0
90°-100°	533.1	6.2
100°-110°	976.7	11.3
110°-120°	893.2	10.4
120°-130°	711.1	8.3
130°-140°	561.4	6.5
140°-150°	417.1	4.8
150°-160°	292.0	3.4
160°-170°	172.1	2.0
170°-180°	56.0	0.6
0°-30°	1048.4	12.2
0°-40°	1698.6	19.7
0°-60°	2990.2	34.7
0°-90°	4001.2	46.5
90°-120°	2403.1	27.9
90°-150°	4092.6	47.5
90°-180°	4613.0	53.6
0°-180°	8613.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1374	1374	1374	1374	1374	
5°	1374	1372	1362	1373	1372	130
15°	1312	1314	1304	1312	1307	370
25°	1193	1197	1188	1194	1187	549
35°	1032	1042	1038	1042	1042	646
45°	850	865	872	881	883	656
55°	654	675	697	712	717	584
65°	450	481	513	534	539	447
75°	248	283	326	353	360	263
85°	74	119	166	195	206	77
90°	23	75	129	166	178	18
95°	56	166	1132	597	412	54
105°	144	218	920	1766	1656	152
115°	244	302	731	1540	1806	240
125°	332	386	682	1216	1416	295
135°	385	461	657	1004	1162	299
145°	447	510	648	814	901	280
155°	508	547	632	714	745	234
165°	555	570	606	643	653	156
175°	577	577	582	589	587	55
180°	578	578	578	578	578	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1374.5	1374.5	1374.5	1374.5	1374.5
2.5°	1378.6	1375.9	1366.4	1375.9	1374.5
5°	1374.5	1371.8	1362.4	1373.2	1371.8
7.5°	1365.1	1363.7	1354.3	1363.7	1362.4
10°	1351.6	1351.6	1340.8	1350.3	1348.9
12.5°	1332.7	1334.1	1326.0	1332.7	1328.7
15°	1312.5	1313.9	1304.4	1312.5	1307.1
17.5°	1286.9	1289.6	1280.2	1286.9	1282.9
20°	1258.6	1261.3	1251.9	1255.9	1255.9
22.5°	1226.3	1231.7	1220.9	1226.3	1222.2
25°	1192.6	1196.6	1188.5	1193.9	1187.2
27.5°	1156.2	1161.6	1152.2	1156.2	1153.5
30°	1114.4	1122.5	1114.4	1117.1	1115.8
32.5°	1076.7	1083.4	1078.0	1080.7	1079.4
35°	1032.2	1041.7	1037.6	1041.7	1041.7
37.5°	989.1	997.2	995.8	1001.2	999.9
40°	944.6	955.4	954.1	959.5	962.2
42.5°	896.1	911.0	915.0	921.7	921.7
45°	850.3	865.1	871.9	881.3	882.7
47.5°	803.1	816.6	827.4	840.9	843.6
50°	754.6	769.5	784.3	799.1	803.1
52.5°	703.4	722.3	741.2	757.3	760.0
55°	653.6	675.1	696.7	711.5	716.9
57.5°	602.4	628.0	652.2	668.4	672.4
60°	551.2	578.1	605.1	625.3	629.3
62.5°	501.3	528.2	557.9	580.8	586.2
65°	450.1	481.1	513.4	533.6	539.0
67.5°	402.9	432.6	464.9	489.2	495.9
70°	350.4	381.4	416.4	442.0	450.1
72.5°	299.2	331.5	370.6	398.9	404.3
75°	248.0	283.0	326.1	353.1	359.8
77.5°	198.1	238.5	278.9	308.6	314.0
80°	152.3	192.7	238.5	268.2	273.6
82.5°	110.5	153.6	200.8	229.1	239.9
85°	74.1	118.6	165.8	195.4	206.2
87.5°	47.2	90.3	136.1	167.1	176.5
90°	22.8	75.2	129.2	166.0	177.7
92.5°	36.4	153.5	570.4	259.0	230.5
95°	56.0	166.3	1131.7	596.8	411.6
97.5°	75.7	171.6	1209.1	968.0	731.3
100°	96.4	184.2	1139.3	1311.1	1032.3
102.5°	119.6	200.6	1023.2	1600.6	1370.8
105°	143.9	218.0	919.6	1765.9	1655.7
107.5°	167.1	237.7	841.9	1808.8	1824.0
110°	192.5	258.8	788.7	1756.0	1897.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	219.3	279.9	755.3	1653.1	1881.8
115°	243.7	301.5	731.3	1539.8	1806.2
117.5°	265.6	323.7	715.4	1435.1	1697.1
120°	288.9	346.1	703.0	1347.6	1590.1
122.5°	312.1	366.5	691.8	1274.9	1494.6
125°	331.9	386.5	681.8	1216.5	1415.6
127.5°	346.9	407.3	674.0	1164.2	1343.7
130°	362.0	428.4	667.7	1112.7	1284.6
132.5°	372.4	447.0	662.3	1057.8	1225.3
135°	385.2	461.4	656.9	1003.8	1161.6
137.5°	401.5	476.0	654.0	948.8	1094.2
140°	414.1	488.2	651.1	898.0	1024.7
142.5°	430.5	498.6	649.6	853.5	959.8
145°	446.8	510.2	648.4	814.4	900.8
147.5°	463.0	520.8	646.1	781.2	846.2
150°	478.2	530.0	642.6	754.6	803.7
152.5°	494.5	539.4	637.9	734.2	772.0
155°	508.5	547.0	632.1	714.3	745.2
157.5°	521.3	554.6	626.3	695.6	720.7
160°	534.1	560.4	620.4	677.0	696.2
162.5°	544.6	566.2	613.4	660.1	674.1
165°	555.1	570.3	606.4	643.2	653.1
167.5°	562.1	572.6	599.4	627.4	633.3
170°	569.1	575.6	593.6	612.2	615.8
172.5°	573.8	576.7	586.6	600.0	599.4
175°	577.3	577.3	581.9	588.9	586.6
177.5°	579.6	577.3	578.4	581.9	578.4
180°	578.4	578.4	578.4	578.4	578.4

(END OF REPORT)