

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: P1027363

Luminaire Tested: S125DIP-B1090D1270UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027363
REPORT IS A COMBINATION OF REPORTS P1001308 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D1270UB30-4F0-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

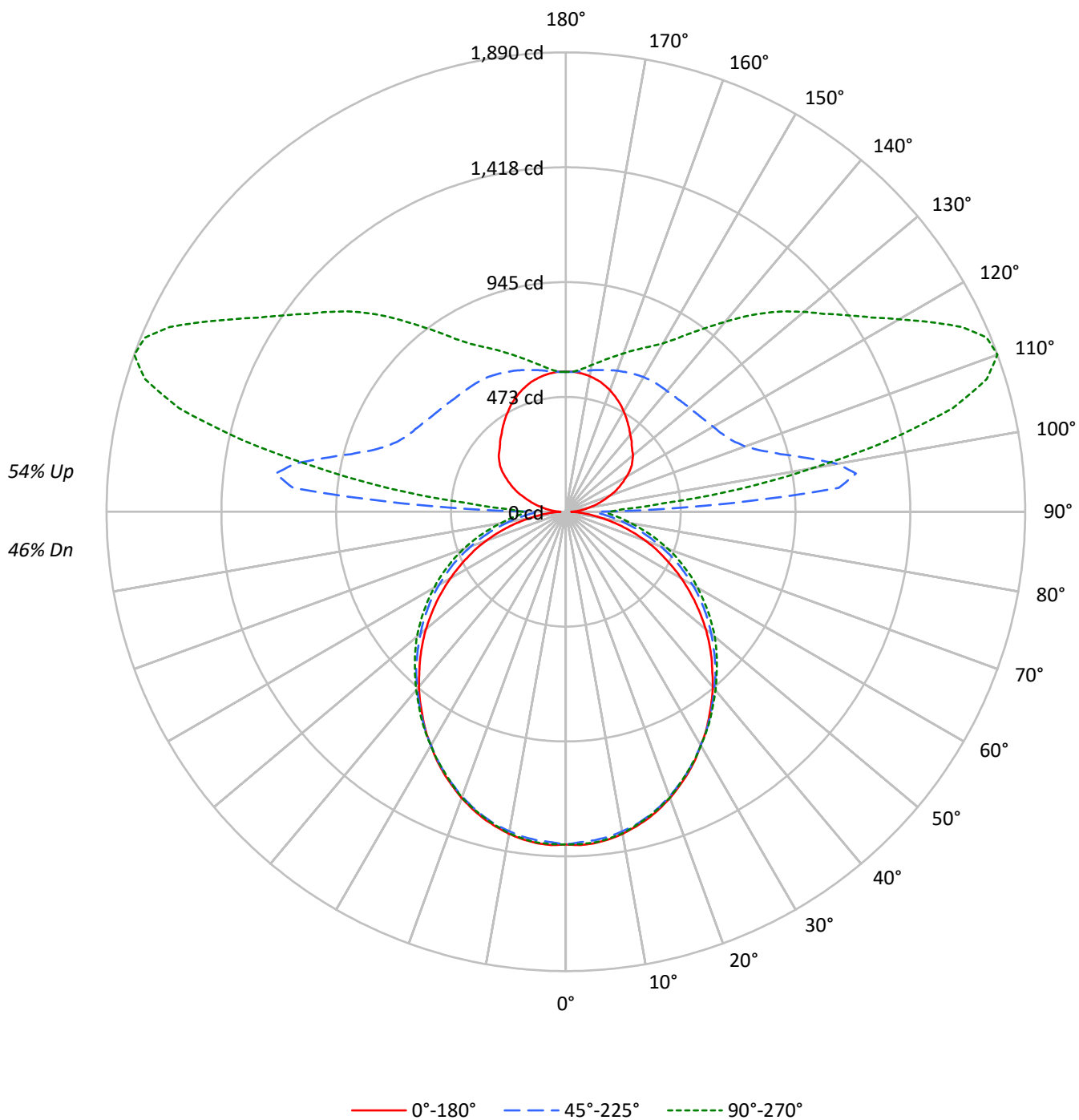
Lumens per Lamp: N/A
Luminaire Lumens: 8576.9 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	8769	8769	8769
5°	8784	8585	8606
10°	8718	8411	8387
15°	8612	8207	8116
20°	8468	7961	7847
25°	8299	7699	7522
30°	8093	7414	7227
35°	7902	7150	6954
40°	7705	6873	6679
45°	7485	6633	6432
50°	7273	6372	6210
55°	7019	6122	5951
60°	6741	5839	5686
65°	6449	5541	5386
70°	6116	5140	5076
75°	5590	4744	4697
80°	4899	4264	4276
85°	4220	3880	4055

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7485 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.5	1.5
10°-20°	367.7	4.3
20°-30°	546.7	6.4
30°-40°	647.5	7.5
40°-50°	669.4	7.8
50°-60°	616.7	7.2
60°-70°	498.5	5.8
70°-80°	333.6	3.9
80°-90°	174.7	2.0
90°-100°	530.8	6.2
100°-110°	972.4	11.3
110°-120°	889.3	10.4
120°-130°	708.0	8.3
130°-140°	558.9	6.5
140°-150°	415.3	4.8
150°-160°	290.7	3.4
160°-170°	171.4	2.0
170°-180°	55.7	0.6
0°-30°	1043.9	12.2
0°-40°	1691.5	19.7
0°-60°	2977.5	34.7
0°-90°	3984.3	46.5
90°-120°	2392.6	27.9
90°-150°	4074.8	47.5
90°-180°	4593.0	53.6
0°-180°	8576.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1369	1369	1369	1369	1369	
5°	1369	1366	1357	1367	1366	130
15°	1307	1308	1299	1307	1302	368
25°	1188	1192	1184	1189	1182	547
35°	1028	1037	1033	1037	1037	643
45°	847	862	868	878	879	653
55°	651	672	694	708	714	582
65°	448	479	511	531	537	445
75°	247	282	325	352	358	262
85°	74	118	165	195	205	77
90°	23	75	129	165	177	18
95°	56	166	1127	594	410	54
105°	143	217	916	1758	1648	151
115°	243	300	728	1533	1798	239
125°	330	385	679	1211	1409	293
135°	384	459	654	1000	1156	298
145°	445	508	646	811	897	279
155°	506	545	629	711	742	233
165°	553	568	604	640	650	156
175°	575	575	579	586	584	55
180°	576	576	576	576	576	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1372.7	1370.0	1360.7	1370.0	1368.7
5°	1368.7	1366.0	1356.6	1367.4	1366.0
7.5°	1359.3	1358.0	1348.6	1358.0	1356.6
10°	1345.9	1345.9	1335.2	1344.5	1343.2
12.5°	1327.1	1328.4	1320.4	1327.1	1323.1
15°	1307.0	1308.3	1298.9	1307.0	1301.6
17.5°	1281.5	1284.2	1274.8	1281.5	1277.5
20°	1253.3	1256.0	1246.6	1250.6	1250.6
22.5°	1221.1	1226.5	1215.7	1221.1	1217.1
25°	1187.6	1191.6	1183.5	1188.9	1182.2
27.5°	1151.3	1156.7	1147.3	1151.3	1148.6
30°	1109.7	1117.8	1109.7	1112.4	1111.1
32.5°	1072.2	1078.9	1073.5	1076.2	1074.8
35°	1027.9	1037.3	1033.2	1037.3	1037.3
37.5°	984.9	993.0	991.6	997.0	995.7
40°	940.6	951.4	950.0	955.4	958.1
42.5°	892.3	907.1	911.1	917.8	917.8
45°	846.7	861.5	868.2	877.6	878.9
47.5°	799.8	813.2	823.9	837.3	840.0
50°	751.4	766.2	781.0	795.7	799.8
52.5°	700.5	719.2	738.0	754.1	756.8
55°	650.8	672.3	693.7	708.5	713.9
57.5°	599.8	625.3	649.5	665.6	669.6
60°	548.8	575.7	602.5	622.6	626.7
62.5°	499.2	526.0	555.5	578.3	583.7
65°	448.2	479.0	511.3	531.4	536.7
67.5°	401.2	430.7	462.9	487.1	493.8
70°	348.9	379.7	414.6	440.1	448.2
72.5°	297.9	330.1	369.0	397.2	402.6
75°	246.9	281.8	324.7	351.6	358.3
77.5°	197.3	237.5	277.8	307.3	312.7
80°	151.6	191.9	237.5	267.0	272.4
82.5°	110.0	153.0	199.9	228.1	238.9
85°	73.8	118.1	165.0	194.6	205.3
87.5°	47.0	89.9	135.5	166.4	175.8
90°	22.7	74.9	128.6	165.2	177.0
92.5°	36.2	152.9	568.0	257.8	229.5
95°	55.7	165.5	1126.8	594.2	409.8
97.5°	75.3	170.8	1203.8	963.8	728.2
100°	96.1	183.4	1134.4	1305.4	1027.8
102.5°	119.1	199.8	1018.7	1593.5	1364.8
105°	143.3	217.0	915.6	1758.1	1648.5
107.5°	166.3	236.8	838.2	1801.0	1816.0
110°	191.7	257.7	785.3	1748.4	1889.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	218.4	278.7	752.1	1646.0	1873.5
115°	242.6	300.1	728.1	1533.2	1798.3
117.5°	264.5	322.2	712.3	1428.9	1689.7
120°	287.7	344.5	700.0	1341.6	1583.1
122.5°	310.8	364.9	688.8	1269.4	1488.2
125°	330.5	384.8	678.8	1211.1	1409.4
127.5°	345.4	405.6	671.1	1159.1	1337.9
130°	360.5	426.5	664.8	1108.0	1279.0
132.5°	370.8	445.1	659.4	1053.2	1220.0
135°	383.5	459.4	654.0	999.5	1156.5
137.5°	399.8	473.8	651.1	944.8	1089.5
140°	412.3	486.0	648.3	894.0	1020.2
142.5°	428.6	496.4	646.7	849.8	955.6
145°	444.8	508.0	645.6	810.8	896.9
147.5°	461.0	518.4	643.3	777.8	842.6
150°	476.1	527.8	639.8	751.2	800.2
152.5°	492.3	537.0	635.1	731.0	768.7
155°	506.3	544.6	629.3	711.2	742.0
157.5°	519.0	552.1	623.5	692.6	717.6
160°	531.8	557.9	617.7	674.0	693.2
162.5°	542.2	563.8	610.8	657.2	671.1
165°	552.7	567.8	603.8	640.4	650.2
167.5°	559.7	570.1	596.8	624.7	630.5
170°	566.6	573.0	591.0	609.6	613.1
172.5°	571.3	574.2	584.0	597.4	596.8
175°	574.8	574.8	579.4	586.4	584.0
177.5°	577.1	574.8	575.9	579.4	575.9
180°	575.9	575.9	575.9	575.9	575.9

(END OF REPORT)