

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: P1027399

Luminaire Tested: S125DIP-B1090D375UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027399
REPORT IS A COMBINATION OF REPORTS P1001344 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D375UB27-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

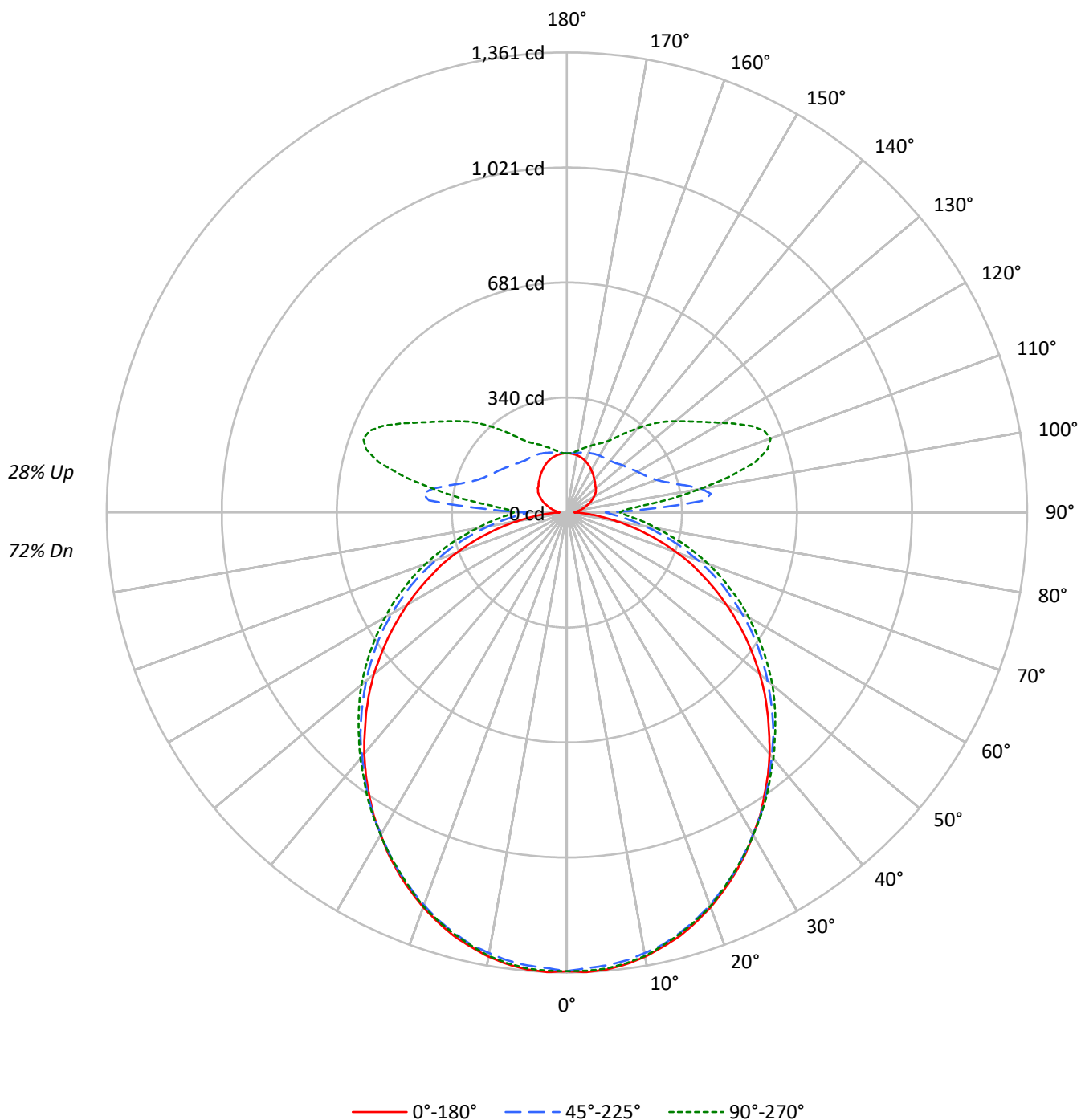
Lumens per Lamp: N/A
Luminaire Lumens: 5520.7 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
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
RCR																	
0	112	112	112	112	106	106	106	106	95	95	95		85	85	85		76
1	102	97	92	88	96	92	88	84	82	79	76		73	71	69		65
2	92	84	77	71	87	80	73	68	71	67	62		64	60	57		57
3	84	73	65	59	79	70	62	57	63	57	52		56	52	48		50
4	77	65	56	50	72	62	54	48	56	49	44		50	45	41		45
5	70	58	49	43	66	55	47	41	50	43	38		45	39	35		40
6	65	52	43	37	61	49	41	36	45	38	33		40	35	31		36
7	60	47	38	32	57	45	37	31	41	34	29		37	31	27		33
8	56	43	34	29	53	41	33	28	37	31	26		34	28	24		30
9	52	39	31	26	49	37	30	25	34	28	23		31	26	22		28
10	49	36	28	23	46	34	27	22	31	25	21		29	23	20		26

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	2.3
10°-20°	364.6	6.6
20°-30°	542.1	9.8
30°-40°	642.0	11.6
40°-50°	663.7	12.0
50°-60°	611.4	11.1
60°-70°	494.3	9.0
70°-80°	330.7	6.0
80°-90°	171.6	3.1
90°-100°	228.0	4.1
100°-110°	344.5	6.2
110°-120°	303.0	5.5
120°-130°	233.6	4.2
130°-140°	177.9	3.2
140°-150°	127.7	2.3
150°-160°	88.3	1.6
160°-170°	52.0	0.9
170°-180°	16.9	0.3
0°-30°	1035.1	18.7
0°-40°	1677.1	30.4
0°-60°	2952.3	53.5
0°-90°	3948.9	71.5
90°-120°	875.4	15.9
90°-150°	1414.6	25.6
90°-180°	1572.0	28.5
0°-180°	5520.7	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	67	115	147	157	16
95°	29	86	409	268	218	26
105°	52	89	329	603	576	55
115°	79	103	257	518	604	78
125°	104	120	227	404	468	92
135°	118	140	206	323	375	92
145°	136	154	196	251	281	85
155°	154	165	191	216	225	71
165°	168	172	183	194	197	47
175°	174	174	176	178	177	17
180°	175	175	175	175	175	

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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°	21.7	67.0	114.7	147.1	157.1
92.5°	23.9	86.2	244.5	170.6	168.5
95°	28.9	86.2	409.4	268.1	218.5
97.5°	34.0	85.1	429.2	375.7	310.6
100°	39.3	85.2	403.5	474.8	396.1
102.5°	45.4	87.4	364.6	557.6	493.7
105°	51.8	89.0	328.8	603.0	576.2
107.5°	57.8	92.2	301.6	612.4	622.4
110°	64.6	95.8	281.8	591.7	641.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	72.8	99.4	268.0	556.1	631.6
115°	79.2	103.1	257.1	518.0	604.1
117.5°	85.0	107.0	248.6	481.8	567.4
120°	92.0	112.0	241.1	451.7	530.4
122.5°	98.0	115.4	234.0	425.0	497.0
125°	104.0	119.6	227.3	403.7	468.5
127.5°	107.6	125.0	221.3	383.3	443.1
130°	112.2	131.4	216.6	364.0	420.6
132.5°	114.4	137.0	211.3	343.8	398.1
135°	118.3	140.4	205.9	322.8	375.1
137.5°	123.3	144.8	202.4	302.5	350.1
140°	126.1	148.5	198.7	283.5	325.4
142.5°	131.0	150.7	196.4	266.4	302.1
145°	136.0	154.2	196.0	250.8	280.6
147.5°	140.0	157.4	195.3	238.0	259.5
150°	144.5	160.2	194.2	228.1	243.8
152.5°	149.5	163.0	192.8	221.9	233.4
155°	153.7	165.4	191.1	216.0	225.3
157.5°	157.6	167.6	189.3	210.3	217.9
160°	161.5	169.4	187.5	204.6	210.5
162.5°	164.6	171.2	185.4	199.6	203.8
165°	167.8	172.4	183.3	194.4	197.4
167.5°	169.9	173.1	181.2	189.7	191.4
170°	172.0	174.0	179.4	185.0	186.1
172.5°	173.4	174.3	177.3	181.4	181.2
175°	174.5	174.5	175.9	178.0	177.3
177.5°	175.2	174.5	174.9	175.9	174.9
180°	174.9	174.9	174.9	174.9	174.9

(END OF REPORT)