

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: P1027621

Luminaire Tested: S125DIP-B1270D375UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027621
REPORT IS A COMBINATION OF REPORTS P1001644 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D375UB27-4F0-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

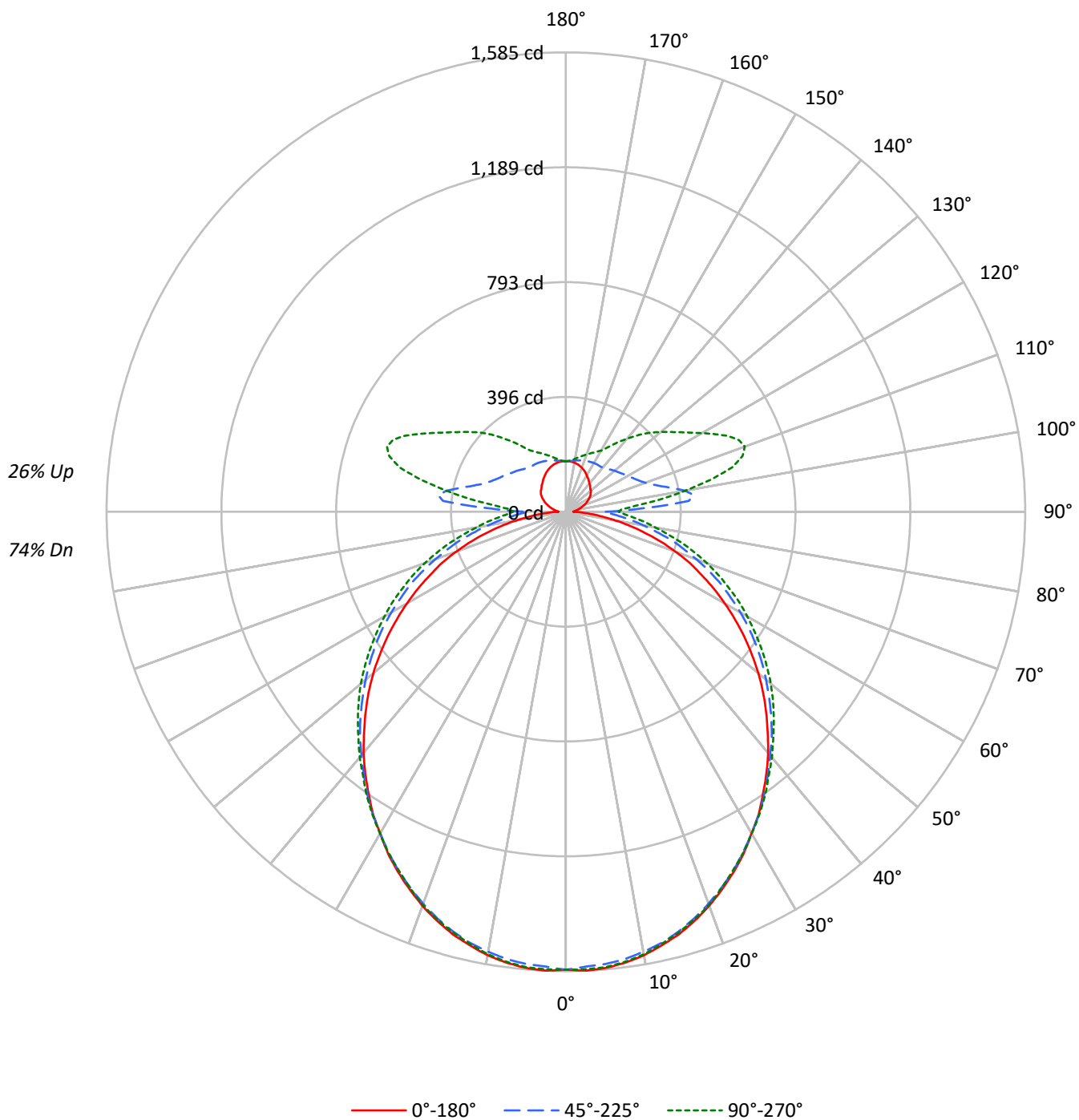
Lumens per Lamp: N/A
Luminaire Lumens: 6211.6 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 70.6
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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78
1	102	97	93	89	97	92	88	85	83	80	77	75	73	70	67	66	64
2	93	84	77	72	87	80	74	69	72	67	63	65	61	58	59	56	53
3	84	74	66	59	80	70	63	57	64	58	53	57	53	49	52	48	45
4	77	65	57	50	73	62	54	48	56	50	45	51	46	41	46	42	38
5	71	58	49	43	67	55	47	41	50	44	39	46	40	36	41	37	33
6	65	52	43	37	62	50	42	36	45	39	34	41	36	31	37	33	29
7	60	47	39	33	57	45	37	32	41	35	30	38	32	28	34	29	26
8	56	43	35	29	53	41	33	28	38	31	26	34	29	25	31	27	23
9	52	39	31	26	50	38	30	25	35	28	24	32	26	22	29	24	21
10	49	36	28	23	46	35	28	23	32	26	21	29	24	20	27	22	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10124	10124	10124
5°	10140	9912	9936
10°	10065	9710	9682
15°	9942	9475	9370
20°	9776	9191	9059
25°	9581	8889	8684
30°	9344	8559	8343
35°	9122	8255	8028
40°	8897	7935	7711
45°	8641	7657	7426
50°	8397	7356	7169
55°	8103	7068	6870
60°	7782	6741	6564
65°	7445	6396	6219
70°	7061	5934	5859
75°	6453	5478	5421
80°	5658	4923	4937
85°	4871	4479	4682

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8641 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	2.4
10°-20°	424.5	6.8
20°-30°	631.2	10.2
30°-40°	747.5	12.0
40°-50°	772.8	12.4
50°-60°	711.9	11.5
60°-70°	575.5	9.3
70°-80°	385.1	6.2
80°-90°	199.7	3.2
90°-100°	243.8	3.9
100°-110°	356.1	5.7
110°-120°	310.8	5.0
120°-130°	238.0	3.8
130°-140°	179.8	2.9
140°-150°	128.1	2.1
150°-160°	88.3	1.4
160°-170°	52.0	0.8
170°-180°	16.9	0.3
0°-30°	1205.2	19.4
0°-40°	1952.7	31.4
0°-60°	3437.5	55.3
0°-90°	4597.9	74.0
90°-120°	910.7	14.7
90°-150°	1456.6	23.4
90°-180°	1614.0	26.0
0°-180°	6211.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1580	1580	1580	1580	1580	
5°	1580	1577	1566	1579	1577	150
15°	1509	1510	1500	1509	1503	425
25°	1371	1376	1366	1373	1365	631
35°	1187	1198	1193	1198	1198	743
45°	978	995	1002	1013	1015	754
55°	751	776	801	818	824	672
65°	517	553	590	614	620	513
75°	285	325	375	406	414	302
85°	85	136	190	225	237	89
90°	25	78	133	170	182	18
95°	32	95	425	289	241	28
105°	54	94	341	619	594	57
115°	80	106	266	531	618	79
125°	105	120	232	412	478	93
135°	119	141	208	327	381	92
145°	136	154	196	252	282	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°	1580.1	1580.1	1580.1	1580.1	1580.1
2.5°	1584.8	1581.7	1570.8	1581.7	1580.1
5°	1580.1	1577.0	1566.2	1578.6	1577.0
7.5°	1569.3	1567.7	1556.9	1567.7	1566.2
10°	1553.8	1553.8	1541.4	1552.3	1550.7
12.5°	1532.1	1533.7	1524.4	1532.1	1527.5
15°	1508.9	1510.4	1499.6	1508.9	1502.7
17.5°	1479.4	1482.5	1471.7	1479.4	1474.8
20°	1446.9	1450.0	1439.2	1443.8	1443.8
22.5°	1409.7	1415.9	1403.5	1409.7	1405.1
25°	1371.0	1375.7	1366.4	1372.6	1364.8
27.5°	1329.2	1335.4	1324.5	1329.2	1326.1
30°	1281.2	1290.4	1281.2	1284.3	1282.7
32.5°	1237.8	1245.5	1239.3	1242.4	1240.9
35°	1186.7	1197.5	1192.9	1197.5	1197.5
37.5°	1137.1	1146.4	1144.8	1151.0	1149.5
40°	1086.0	1098.4	1096.8	1103.0	1106.1
42.5°	1030.2	1047.2	1051.9	1059.6	1059.6
45°	977.5	994.6	1002.3	1013.1	1014.7
47.5°	923.3	938.8	951.2	966.7	969.8
50°	867.5	884.6	901.6	918.7	923.3
52.5°	808.7	830.3	852.0	870.6	873.7
55°	751.3	776.1	800.9	818.0	824.2
57.5°	692.5	721.9	749.8	768.4	773.0
60°	633.6	664.6	695.6	718.8	723.5
62.5°	576.3	607.3	641.4	667.7	673.9
65°	517.4	553.0	590.2	613.5	619.7
67.5°	463.2	497.3	534.5	562.3	570.1
70°	402.8	438.4	478.7	508.1	517.4
72.5°	343.9	381.1	426.0	458.6	464.7
75°	285.0	325.3	374.9	405.9	413.6
77.5°	227.7	274.2	320.7	354.8	361.0
80°	175.1	221.5	274.2	308.3	314.5
82.5°	127.0	176.6	230.8	263.4	275.8
85°	85.2	136.3	190.5	224.6	237.0
87.5°	54.2	103.8	156.5	192.1	202.9
90°	25.2	77.6	132.6	170.1	181.6
92.5°	27.0	95.6	261.5	192.4	191.9
95°	31.7	94.8	425.4	288.9	240.8
97.5°	36.6	93.0	444.3	395.4	331.8
100°	41.7	92.2	417.4	493.4	416.0
102.5°	47.6	93.7	377.7	575.2	512.5
105°	53.7	94.4	340.8	619.4	594.1
107.5°	59.6	97.0	312.7	627.8	639.3
110°	66.1	99.9	292.1	606.1	657.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	74.3	102.9	277.4	569.4	646.4
115°	80.5	105.9	265.6	530.6	617.9
117.5°	86.0	109.2	256.2	493.2	580.3
120°	93.0	113.8	247.9	462.2	542.3
122.5°	98.9	116.4	239.9	434.4	507.7
125°	104.9	120.2	232.3	412.2	478.2
127.5°	108.2	125.4	225.4	390.8	451.9
130°	112.8	131.8	220.1	370.6	428.2
132.5°	114.8	137.4	213.9	349.4	404.7
135°	118.7	140.6	207.7	327.4	380.8
137.5°	123.7	145.0	203.4	306.2	354.7
140°	126.3	148.6	199.1	286.3	329.1
142.5°	131.2	150.7	196.4	268.2	304.9
145°	136.2	154.2	196.0	251.8	282.5
147.5°	140.0	157.4	195.3	238.4	260.4
150°	144.5	160.2	194.2	228.1	244.0
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)