

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: P1028312

Luminaire Tested: S125DIP-B850D375UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028312
REPORT IS A COMBINATION OF REPORTS P1002584 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D375UB40-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

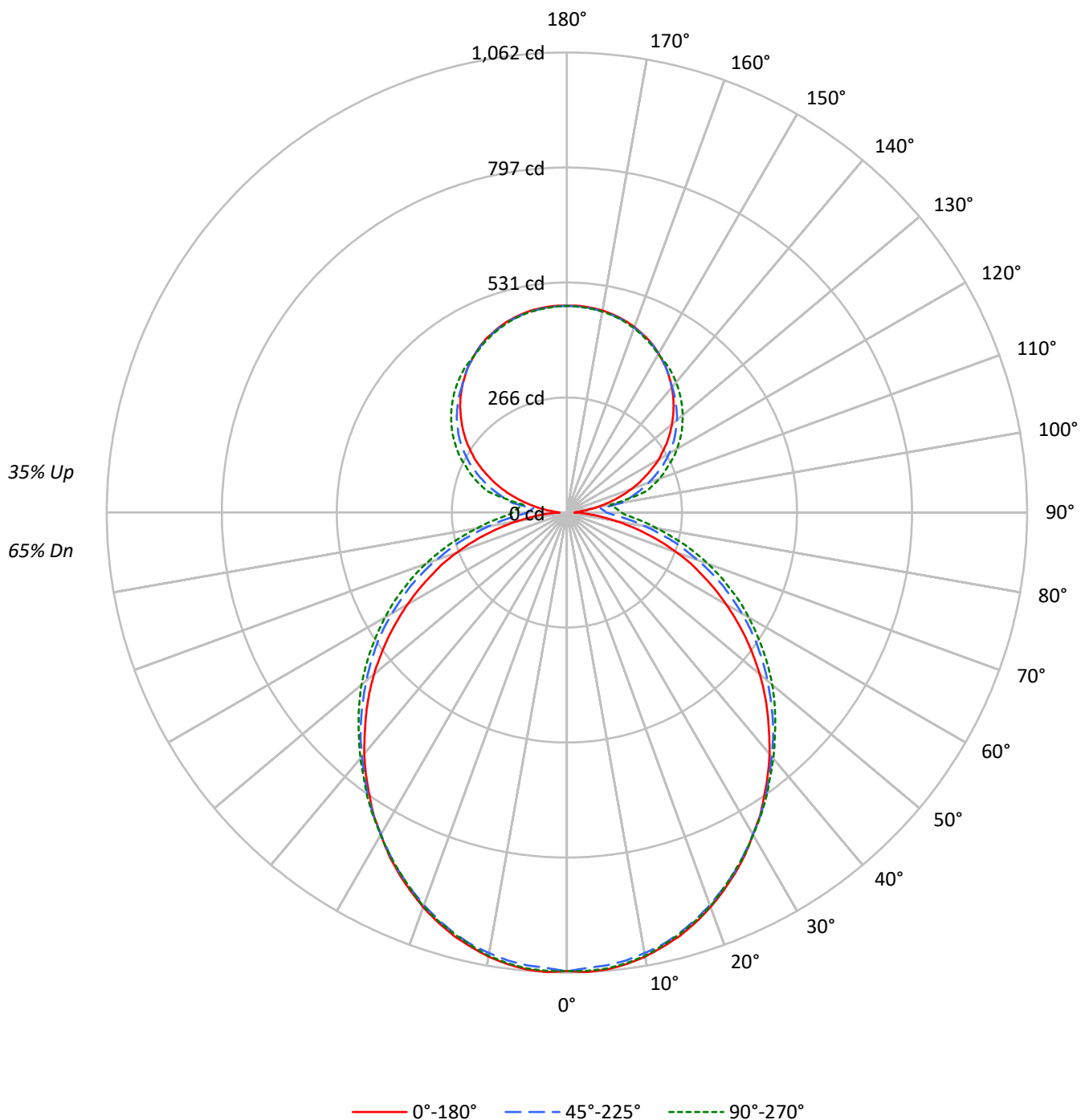
Lumens per Lamp: N/A
Luminaire Lumens: 4746.0 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 45.2
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	111	111	111	111	104	104	104	104	92	92	92	80	80	80	70	70	70
1	100	95	91	87	94	90	86	82	79	76	73	69	67	65	60	59	57
2	91	83	76	70	85	78	72	67	69	64	60	60	57	54	52	50	47
3	83	72	65	58	77	68	61	55	60	55	50	53	49	45	46	43	40
4	76	64	56	49	71	60	53	47	53	47	42	47	42	38	41	37	34
5	69	57	48	42	65	54	46	40	48	41	37	42	37	33	37	33	30
6	64	51	43	36	60	48	41	35	43	37	32	38	33	29	33	29	26
7	59	46	38	32	55	44	36	31	39	33	28	35	29	26	31	26	23
8	55	42	34	28	51	40	32	27	36	29	25	32	27	23	28	24	21
9	51	38	31	25	48	36	29	24	33	27	22	29	24	20	26	22	19
10	48	35	28	23	45	33	27	22	30	24	20	27	22	19	24	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6784	6784	6784
5°	6795	6642	6658
10°	6744	6507	6488
15°	6662	6348	6278
20°	6551	6158	6071
25°	6420	5956	5819
30°	6261	5735	5590
35°	6112	5531	5379
40°	5961	5317	5167
45°	5790	5131	4976
50°	5627	4929	4804
55°	5430	4737	4603
60°	5215	4517	4398
65°	4989	4286	4167
70°	4731	3977	3926
75°	4325	3670	3633
80°	3791	3298	3308
85°	3265	3003	3137

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5790 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	2.1
10°-20°	284.4	6.0
20°-30°	422.9	8.9
30°-40°	500.9	10.6
40°-50°	517.8	10.9
50°-60°	477.0	10.1
60°-70°	385.6	8.1
70°-80°	258.0	5.4
80°-90°	134.1	2.8
90°-100°	91.3	1.9
100°-110°	163.0	3.4
110°-120°	231.0	4.9
120°-130°	269.8	5.7
130°-140°	276.8	5.8
140°-150°	253.0	5.3
150°-160°	203.2	4.3
160°-170°	131.4	2.8
170°-180°	45.3	1.0
0°-30°	807.6	17.0
0°-40°	1308.5	27.6
0°-60°	2303.4	48.5
0°-90°	3081.1	64.9
90°-120°	485.3	10.2
90°-150°	1285.0	27.1
90°-180°	1665.0	35.1
0°-180°	4746.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1059	1059	1059	1059	1059	
5°	1059	1057	1050	1058	1057	100
15°	1011	1012	1005	1011	1007	285
25°	919	922	916	920	914	423
35°	795	802	799	802	802	498
45°	655	666	672	679	680	505
55°	504	520	537	548	552	450
65°	347	371	396	411	415	344
75°	191	218	251	272	277	202
85°	57	91	128	150	159	60
90°	17	53	91	116	125	13
95°	34	60	82	106	113	35
105°	113	131	162	183	190	120
115°	201	210	238	255	259	200
125°	282	283	304	319	323	251
135°	348	349	356	369	372	269
145°	402	402	402	408	410	251
155°	442	440	441	442	439	204
165°	466	464	465	467	464	132
175°	477	475	475	478	475	45
180°	477	477	477	477	477	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1058.8	1058.8	1058.8	1058.8	1058.8
2.5°	1061.9	1059.8	1052.6	1059.8	1058.8
5°	1058.8	1056.7	1049.5	1057.8	1056.7
7.5°	1051.5	1050.5	1043.2	1050.5	1049.5
10°	1041.2	1041.2	1032.9	1040.1	1039.1
12.5°	1026.6	1027.7	1021.4	1026.6	1023.5
15°	1011.1	1012.1	1004.8	1011.1	1006.9
17.5°	991.3	993.4	986.1	991.3	988.2
20°	969.5	971.6	964.3	967.5	967.5
22.5°	944.6	948.8	940.5	944.6	941.5
25°	918.7	921.8	915.6	919.7	914.5
27.5°	890.6	894.8	887.5	890.6	888.6
30°	858.5	864.7	858.5	860.5	859.5
32.5°	829.4	834.6	830.4	832.5	831.5
35°	795.1	802.4	799.3	802.4	802.4
37.5°	761.9	768.2	767.1	771.3	770.2
40°	727.7	736.0	734.9	739.1	741.2
42.5°	690.3	701.7	704.8	710.0	710.0
45°	655.0	666.4	671.6	678.9	679.9
47.5°	618.7	629.1	637.4	647.7	649.8
50°	581.3	592.7	604.1	615.6	618.7
52.5°	541.9	556.4	570.9	583.4	585.5
55°	503.5	520.1	536.7	548.1	552.2
57.5°	464.0	483.7	502.4	514.9	518.0
60°	424.6	445.3	466.1	481.7	484.8
62.5°	386.2	406.9	429.8	447.4	451.6
65°	346.7	370.6	395.5	411.1	415.2
67.5°	310.4	333.2	358.1	376.8	382.0
70°	269.9	293.8	320.8	340.5	346.7
72.5°	230.4	255.4	285.5	307.3	311.4
75°	191.0	218.0	251.2	272.0	277.2
77.5°	152.6	183.7	214.9	237.7	241.9
80°	117.3	148.4	183.7	206.6	210.7
82.5°	85.1	118.3	154.7	176.5	184.8
85°	57.1	91.3	127.7	150.5	158.8
87.5°	36.3	69.5	104.8	128.7	136.0
90°	17.0	53.0	90.8	116.4	124.8
92.5°	21.2	48.1	86.7	111.2	118.9
95°	33.7	59.6	81.5	106.0	113.3
97.5°	50.3	77.4	78.0	100.5	108.1
100°	70.5	93.3	127.9	97.0	101.9
102.5°	91.0	112.1	145.0	166.5	143.0
105°	113.3	131.4	162.5	183.3	190.1
107.5°	136.3	150.8	181.6	202.8	207.6
110°	158.6	171.0	200.9	219.5	227.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	180.6	190.9	219.3	236.6	243.2
115°	201.4	210.5	237.8	255.1	259.2
117.5°	223.4	228.6	255.9	271.5	278.0
120°	244.6	247.3	272.3	289.2	293.7
122.5°	262.3	265.1	288.3	304.1	308.3
125°	281.8	283.2	304.0	319.1	323.3
127.5°	299.4	300.2	317.4	332.3	335.7
130°	316.4	317.2	332.0	345.5	348.9
132.5°	332.4	334.5	343.8	358.3	360.7
135°	348.3	349.3	355.9	368.7	371.8
137.5°	363.1	364.2	367.6	380.0	382.5
140°	376.5	377.2	378.0	390.1	392.1
142.5°	389.6	389.0	389.7	399.0	401.1
145°	402.3	402.1	402.1	407.6	409.6
147.5°	412.7	412.7	413.0	415.5	415.1
150°	423.3	422.6	423.3	424.0	422.1
152.5°	433.5	431.8	432.5	433.2	430.7
155°	442.0	439.9	440.6	441.7	438.8
157.5°	448.7	447.7	447.7	448.7	445.9
160°	455.8	453.7	454.0	455.4	452.6
162.5°	461.5	459.3	459.7	461.8	458.6
165°	466.4	464.3	464.6	466.8	463.9
167.5°	470.3	468.2	468.5	471.0	467.8
170°	473.5	471.0	471.4	474.2	471.0
172.5°	475.6	473.1	473.8	476.3	473.1
175°	477.0	474.9	475.2	478.1	474.9
177.5°	478.1	476.0	476.3	478.8	476.0
180°	477.0	477.0	477.0	477.0	477.0

(END OF REPORT)